SFUND RECORDS CTR 2166-03034

Allan _____

MANUFACTURERS AN, MS AND SPECIAL FITTINGS
"SPECIALISTS IN STAINLESS STEEL
and EXOTIC ALLOYS"

11643 VANOWEN STREET, P.O. BOX 3097 • NO. HOLLYWOOD, CA 91609-0097 • (818) 765-4992 • TWX 910-499-2672 • FAX 818-503-9708

January 16, 1992

Chris Stubbs South Coast Groundwater Section (H-6-4) United States Environmental Protection Agency P.O. Box 193036 San Francisco, CA 94119-3036

RECEIVED

JAN 21 1992

PRC ENVIRONMENTAL MANAGEMENT, INC.

Ref: File No. 111.0078

Enclosed is the information asked for in USEPA letter dated December 16, 1991.

AN. W.

Robert Kahmann General Manager



MANUFACTURERS AN, MS AND SPECIAL FITTINGS
"SPECIALISTS IN STAINLESS STEEL
and EXOTIC ALLOYS"

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January 15, 1992

Ref: File # 111.0078

A diligent record search has been completed and a diligent interview of present or former employees has been conducted. All information has been forwarded to the EPA.

Robert Kahmann General Manager

Notary

WITNESSED VAN. 16, 1991

OFFICIAL SEAL

Y. CHARLES SHODA

NOTARY PUBLIC CALIFORNIA
LOS AMORLES COUNTY
NY CONTIL. EXPENS Feb. 20, 1993

ANSWERS TO EPA QUESTIONS

page 1 of 3

- 1. EPA I.D. # CAL000027854
- 2. In early 1957 the current facility was constructed; Allan Aircraft Supply Company is the only business that has occupied the site. The operation consists of manufacturing, testing, and storage of Aerospace fittings.
- 3. Current owner: Mrs. Vera Hunt FX-6 Personal Privacy

No longer a lease - we are on a month-to-month with a one year notice.

- 4. In 1957 the property was owned by J. Wake Hunt, whose address at that time was 11817 Vose St. N. Hollywood.
- 5. There are no previous lessees or operations at 11643 Vanowen St. after 1957.
- 6. See plot map from Smith-Emery Company.
 - a) The facility currently consists of two one-story buildings. The southern building consists of office space, storage areas, a quality control area, and a shop area for grinding and finishing parts. The northern building consists of warehouse space, a machine shop for manufacturing, and quality control areas. The space between the two buildings contains a compressor, scrap metal bins, and four above ground polypropylene tanks (approximately 250 gallons each) used to store wastewater and water soluble coolants.
 - b) There are no underground structures on the property. There are no underground drain lines.
 - c) There are no wells on the property to the best of our knowledge.
 - d) Storm water drains off the property to the city storm drain system. The facility is connected to the city sewer system for sanitary sewage disposal. No subsurface disposal method has ever been employed by this facility.

page 2 of 3

(6. cont.)

- e) Degreasing unit is disconnected and wrapped but not yet removed. Tower and pipes have been removed. Has not operated with Trichloroethane since approx 1981-1982.
- 7. Only known documents are: SCAQMD permit P37405 to operate degreaser. (see attached)
- 8. a,b,c) See attached SECO report no. G-91-6594.d) Borings were completed January 13, 1992
- 9. No. Allan Aircraft Supply Company is the only business that has ever operated from this site. Prior site usage was most likely residential, based on the surrounding land use before the 1950's.
- 10. No. no knowledge of hazardous substance disposal was available when Allan Aircraft began operations in 1957. There are no records available at the City of Los Angeles Department of Building and Safety relating to the previous site usage.
- 11. Yes. See attached list of materials, recycle reports, and Hazardous Material Manifest.

The attatched list of materials is from Dec 1991 back thru 1984 where our records end. The Baron degreaser was installed in 1969-1970 and operated until approximately 1981 using III Trichloroethane. Trichloroethane was supplied by Oil and Solvent Process Co. They also picked up all used Trichloroethane for reprocessing. See Hazardous Material Manifest. During 1981 we converted to Blue Gold, a non-hazardous compound. We have not operated the degreaser with Trichloroethane since 1981, but we have kept the permit active in case our operation changed. It has not and we have put the degreaser in storage.

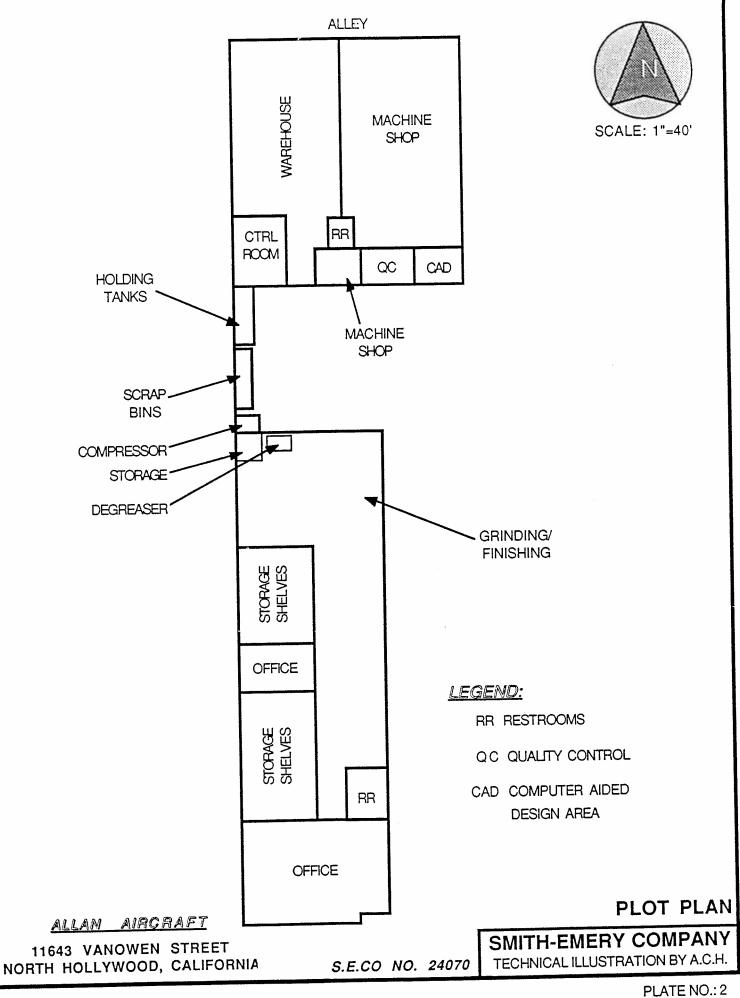
12.

1. 1990. The hose filling a holding tank with water soluble coolant slipped out of the tank and discharged approximately 10 gallons onto the asphalt driveway. The coolant was Safety Cool 822C and water. It was immediately picked up with absorbing compound. The coolant was Non-Hazardous.

page 3 of 3

(12. cont.)

- 2. 1991. The metal gutter used to catch the drops of water soluble coolant coming from the scrap bins broke, allowing less than 1 quart to drip onto the asphalt. The coolant was picked up with absorbing compound. The metal gutter was replaced with cement gutter filled with absorbing compound. The coolant was Non-Hazardous.
- i. Persons with knowledge of this are:
 - 1) Dan Terrones Warehouse Manager
 - 2) Jack Barker Production Manager
- 13. There are no underground structures on the property.
- 14. Yes. The facility has been connected to the Los Angeles system since construction in 1957. The system is used for disposal of sanitary wastes and potable water, as well as normal household wastes.
- 15. There is no record of acts or omissions by others
- 16. There are no subsidiaries or parent companies.
- 17. No articles or by laws exist.
- 18. SIC code 3494
- 19. None other
- 20. See attached copies of permits.
- 21. Warehouse at 11815 Vose St. N. Hollywood, CA since approx 1984





P37405

Sector WB

peration under this permit must be conducted in compliance with all data and specifications included with the application under which this permit is issued. The equipment In accordance with Rule 10(c), this Fermit to Operate must be posted or accessible. ust be properly maintained and kept in good operating condition at all times.

R OPERATORS

GAL OWNER ANDERSON KAHMANN AND ROBERT A. BONHAN, DBA

Appl. No. A-57908

DATE OF THE PARTY DUIPMENT

OCATED ATE

1 DUIPMENT:

A STATE OF THE SAME 11643 VANOWEN STREET

NORTH HOLLYWOOD, CALIFORNIA

ALIAM AIRCRAFT SUPPLI COMPANY

SCUTH COAST ASS CLIALITY WANAGEMENT DISTRICT

escription 😘 AND WARE ONDITIONS:

DEGREASER, BARCH VAPOR-SPRAY TYPE, HODEL DB-4250, 21-6" W. x 41-0" L. x 41-9" H., SERIAL NO. D-5820, GAS FIRED, WITH A 1/3 H.P. PUMP.

- CONDITION -

THIS EQUIPMENT MUST NOT BE OPERATED IN A NANNER WHICH RESULTS IN THE DISCHARGE INTO THE ATHOSPHERE IN ANY ONE DAY OF MORE THAN LO POUNDS OF CREANIC MATERIALS PROMITHE USE OF PHOTOCHEMICALLY HEACTIVE ORGANIC SCLVENTS UNLESS SUCH DISCHARGE IS CONTROLLED SO AS TO COMPLY WITH RULE 66.

Filing fee only - total cost of permit - filing fee paid myslighten manber 10, 1969.

Permit Section

DATE March 25, 1970 HEADQUARTERS, 9150 FLAIR DR., EL MONTE, CA 91731

JULY

18, 1991

ID - 023521
ALLAN AIRCRAFT SUPPLY CO
11643 VANOWEN ST.
NORTH HOLLYWOOD CA 91605-6128

PERMIT RENEWALS

| PERMIT NUMBER | DESCRIPTION | APPLIC NUMBER | EXPIRATION DATE |
|------------------|--|------------------|-----------------|
| | *************************************** | | |
| P37405 | DEGREASER TRICHLOROETHYLENE <=1 LB/D VOC | A57908 | 07/01/92 |

HEADQUARTERS,

9150 FLAIR DR., EL MONTE, CA 91731

JULY

18, 1991

ID - 023521
ALLAN AIRCRAFT SUPPLY CO
11643 VANOWEN ST.
NORTH HOLLYWOOD CA 91605-6128

OFFICIAL DOCUMENT

ANNUAL VALIDATION OF PERMIT TO OPERATE

DEAR PERMIT HOLDER:

THIS LETTER IS THE OFFICIAL NOTICE OF RENEWAL AND ACKNOWLEDGEMENT OF PAYMENT FOR THE ATTACHED LIST OF PERMIT(S) TO OPERATE. OPERATION UNDER THIS LETTER AND THE PERMIT(S) WHICH IT RENEWS MUST BE CONDUCTED IN COMPLIANCE WITH ALL INFORMATION INCLUDED WITH THE INITIAL APPLICATION AS WELL AS THE INITIAL PERMIT CONDITIONS. THE EQUIPMENT MUST BE MAINTAINED AND KEPT IN GOOD CONDITION AT ALL TIMES. UNLESS OTHERWISE SPECIFICALLY STATED, THE ORIGINAL PERMIT TO OPERATE REMAINS IN FULL FORCE AND EFFECT, AND MUST BE RETAINED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT.

FOR FURTHER INFORMATION, OR IF YOU HAVE ANY QUESTIONS REGARDING THIS LETTER, PLEASE CALL CUSTOMER SERVICE AT (818) 307-2200.

SINCERELY.

JAMES M. LENTS, PH.D. EXECUTIVE OFFICER

RENEWAL(S) ATTACHED

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| | | | CHI R REVOKED. IT BECOMES VOID UPON ANY CH | EF ENG./GEN. MGR. | |



The Full Service Independent Testing Laboratory, Established 1904

781 East Washington Bled. Los Angeles, California 90021 (213) 749-3411 Fax (213) 746-7228

November 16, 1991

SECo File No. 24070

SECo Report No.: G-91-6594

California Regional Water Quality Control Board Los Angeles Region 101 Centre Plaza Drive Monterey Park, CA 91754-2156

Attention: Ms. Ann Zaszkodna

SITE ASSESSMENT WORK PLAN Allan Aircraft Supply Company 11643 Vanowen Street North Hollywood, California

INTRODUCTION

As per your request, we are providing this work plan for a site assessment for the above referenced property. The location of the property with respect to the surrounding area is shown on the Vicinity Map, Plate 1. The scope of work presented here is based on the Regional Water Quality Control Board (RWQCB) letter to Allan Aircraft Supply Company of August 15, 1991, our professional experience, and review of the RWQCB "Workplan Requirements for Initial Subsurface Engineering/Geologic Soil Investigation (Well Investigation Program)".

Anaheim

San Francisco

HISTORICAL INFORMATION

General

The subject property currently consists of a one-story metal parts manufacturing facility, some office space, asphalt parking areas, and an above ground waste storage area. The area of concern is shown on the Plot Plan, Plate 2. According to Mr. Jack Barker of Allan Aircraft, this is an area where above ground tanks containing diluted wastewater and coolant oils are located. Another potential concern is a vapor degreasing unit that initially used tetrachloroethylene (PCE) as a solvent; however, according to Mr. Barker the use of PCE was discontinued in the mid to late 1970's. The major chemicals currently used on site are water soluble synthetic oils, non hazardous degreasing soaps, and alcohols.

Building Permit Review

Building permits for the property at 11643 Vanowen Street were reviewed at the City of Los Angeles Department of Building and Safety. The building history and occupancy of the site, as far as can be determined from available documentation is described as follows.

The earliest document on file is a report on compacted fill prepared by the Donald R. Warren Company on February 19, 1957. According to this document, the property is legally described as Lot 26 of the De Hougne Tract in the City of Los Angeles. The report also states

that three cesspools on the property were back filled with sand prior to construction on the site.

The City of Los Angeles sent a letter to the Donald R. Warren Company on March 1, 1957 approving these compacted fills.

An application to construct a new building was filed by J. Wake Hunt on February 27, 1957. The building is described as a single-story 60 foot by 200 foot structure to be used for aircraft parts sales. A certificate of occupancy was issued for this building on June 7, 1957. On February 6, 1958 a permit for alterations to the building also lists the owner as J. Wake Hunt. A remodeling permit dated March 23, 1959 lists J. Wake Hunt as the owner and gives the use of the building as warehouse and office space.

According to Building and Safety Department personnel, no additional information for the subject address or lot and tract number is on file at this agency. Based on this information and interviews with Allan Aircraft personnel it appears the only development on the site prior to the current occupant was most likely residential units.

Underground Storage Tanks

Information concerning underground storage tanks on the subject property was requested from the Valley Division of the Los Angeles City Fire Department. According to personnel at this agency, no documentation was on file. Mr. Jack Barker, Allan Aircraft's

facility manager, states that no underground tanks have ever been used on the property to the best of his knowledge.

Hazardous Materials Business Plans

A request for information on hazardous materials storage at the subject address was sent to the Hazardous Materials Unit of the Los Angeles City Fire Department. A business inventory list details the presence of the following hazardous materials:

| Substance | Maximum On Hand | Product Storage Type | |
|---|--------------------|-------------------------|---------|
| Denatured Alcohol | 55 Gallons | Drums, Barrels, | Carboys |
| Denatured Alcohol Ethyl Alcohol Methyl Alcohol Methyl Isobutyl | | | |
| Denatured Alcohol | 90-95 55 Gallons | Drums, Barrels, | Carboys |
| Ethyl Alcohol Methyl Alcohol Ethyl Acetate Methyl Isobutyl | | | |

According to Mr. Barker, tetrachloroethylene (PCE) was formerly used on site as a degreasing agent. Due to increasing cost and regulatory compliance measures use of PCE was discontinued in the mid to late 1970's. Currently "Everclean Blue Gold" is used as a degreaser; according to information supplied by the manufacturer this substance is nonflammable and contains no hazardous components.

INVESTIGATION WORK PLAN

The following procedure is proposed for use during this site assessment. As actual subsurface conditions encountered may vary, this plan may not hold for all possible conditions, but will be followed to the fullest extent possible. If field conditions necessitate changes to this plan the RWQCB will be notified immediately.

Boring Program

We will implement the RWQCB requirements contained in their August 15th letter by drilling six borings with a hand auger. The borings will be in locations specified by the RWQCB as shown on the attached Plot Plan and will be a minimum of 10 feet deep. Samples will be obtained at one (1), five (5), and 10 feet and analyzed at Smith-Emery's state certified laboratory by EPA 418.1 for Total Petroleum Hydrocarbons (TPH) and 8260 for Volatile Organic Compounds. All samples will be archived and if the shallow analysis indicates contamination identical tests will be run on the deeper samples.

All samples will be obtained by means of a standard penetration sampler equipped with new 1.5 inch O.D. brass tubes and will be discrete and undisturbed. The tubes will be covered with Teflon sheeting and a close fitting plastic cap, labeled, and placed in a chilled, insulated cooler at 4 degrees Celsius for immediate transport to Smith-Emery Company's laboratory. Proper chain-of-custody forms will be utilized throughout sampling and transport.

All sampling and augering equipment will be washed with an Alconox solution between samples.

All cuttings and wash water will be placed in DOT 17H drums, sealed, labeled, and stored on site pending analytical results. The borings will be backfilled with bentonite chips prior to leaving the site.

Analytical Program

We propose the following analytical schedule:

- 1) All one (1) foot samples will be analyzed for TPH by EPA 418.1
- The five (5) foot samples in B-1 (tank area), B-3 (Storage shed) B-4 (degreaser), and B-6 (compressor) will be analyzed for volatile organics by EPA 8260. All other five (5) foot samples will be analyzed by EPA 418.1.
- The 10 foot samples in B-2 (tank area) and B-5 (degreaser) will be analyzed by EPA 8260. All other 10 foot samples will be analyzed by EPA 418.1.

We believe this staggered analytical program will determine if any hydrocarbon or solvent contamination has penetrated the subsurface. To define vertical extent any samples deeper than samples that return positive 8260 results will also be analyzed by EPA 8260. Care will be taken that EPA holding times are not exceeded.

HYDROGEOLOGY

The subject property is located at an elevation of approximately 715 feet above sea level (USGS Van Nuys Quadrangle, 1972). The property is asphalt capped and sloped to allow stormwater to run off onto Vanowen Street. Directly opposite the facility on the south side of Vanowen Street is a groundwater extraction well. The following information regarding this well was reported by the Los Angeles County Department of Public Works, Hydrologic Records Division:

| Well Number | Date Measured | Depth to Water | Elevation of Well Head |
|-------------|---------------|----------------|------------------------|
| 3810 | 4-18-91 | 230.6 ft | 713.3 ft |

As the RWQCB has stipulated a shallow (10') depth for all borings, no groundwater is expected to be encountered during this investigation. Local groundwater flow is towards the extraction well. Recharge is limited to runoff percolation from the Verdugo Mountains to the northeast.

REPORT AND SCHEDULE

After evaluation of the analytical results, a report will be submitted to the RWQCB as detailed in the "Report Content" attachment. As this investigation is being conducted to obtain samples for analysis, it is exempt from air monitoring requirements under South Coast Air Quality Management District Rule 1166, as detailed in paragraph (d) (1) (C) of that rule. The report will be completed approximately three weeks after samples are obtained.

Field work will begin within 14 days of the approval of this workplan and RWQCB personnel will be given 10 days notice prior to the start of field operations.

QUALITY ASSURANCE/QUALITY CONTROL

A field blank consisting of a brass tube containing clean #20 silica sand will be prepared and will accompany the sample tubes to the job site and then to the laboratory. The blank will be analyzed by EPA 418.1 for Total Petroleum Hydrocarbons and EPA 8260 for Volatile Organic Compounds.

The final report will include laboratory quality control information including calibration check standards and matrix spike duplicates.

If you have any comments or questions regarding this work plan we look forward to talking with you about them. We can be reached at 213/749-3411, ext. 373 and Fax 213/746-7228.

Respectfully submitted,

SMITH-EMERY COMPANY

BRIAN PRIMEAU

Environmental Assessor

Enclosures:

Report Contents

BP:LK/ss

Reviewed and Approved by

LUTZ KUNZE, R.G.E. 493

. Vice President

REPORT CONTENTS

A report shall be submitted to the RWQCB containing:

- 1. Plot plan to scale showing locations of borings, sampling points, buildings, adjacent streets and north arrow.
- 2. Description of methods for obtaining, handling, and transporting samples.
- 3. Time and date samples were obtained.
- 4. Boring logs certified by a California Registered Geologist, California Certified Engineering Geologist, or California Registered Civil Engineer with sufficient experience in soils.
- 5. Chain-of-custody documentation initiated by person obtaining sample through person at State Department of Health Services certified laboratory.
- 6. Analysis results by a State certified laboratory submitted on laboratory letterhead showing analysis date, methods, and detection limits.
- 8. Documentation as to depth of groundwater at facility with comments on the potential for contamination.
- 9. Report to be signed by California Registered Geologist, California Certified Engineering Geologist, or California Registered Civil Engineer with sufficient experience in environmental work.
- 10. Any observations of site contamination and analytical results which may be pertinent.



SCALE: 1" = 2000"



REFERENCE:

U.S.D.I. - GEOLOGICAL SURVEY

VAN NUYS QUADRANGLE

LOS ANGELES COUNTY, CALIFORNIA

FILE NO.: 24070

VICINITY MAP

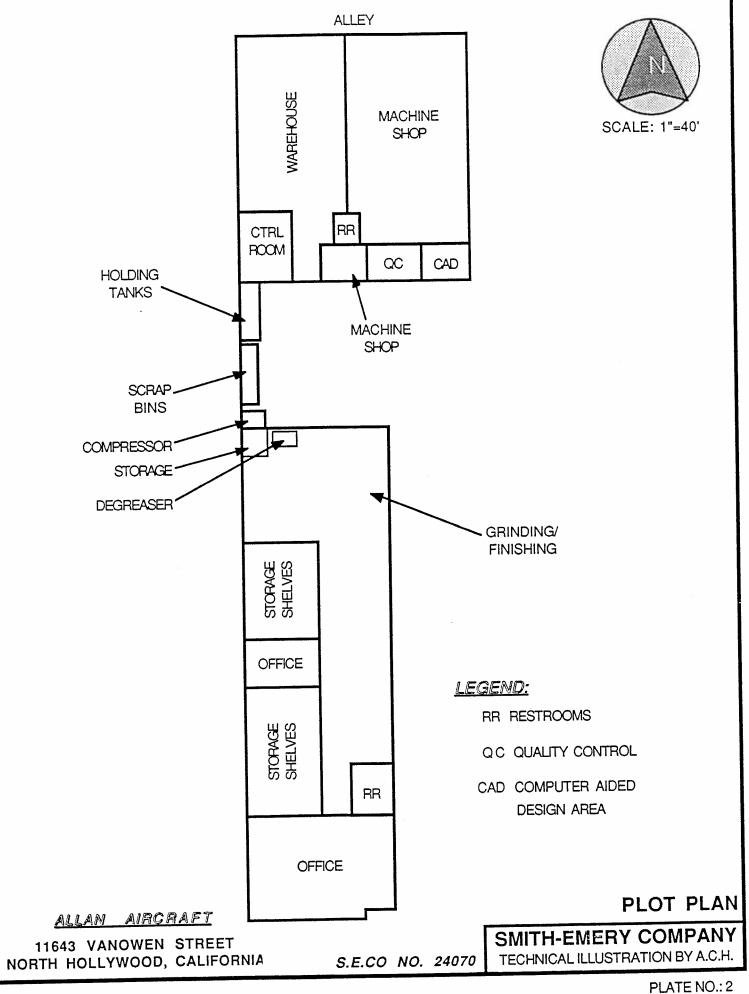
ALLAN AIRCRAFT

11643 VANOWEN STREET

NORTH HOLLYWOOD, CALIFORNIA

SMITH-EMERY COMPANY

TECHNICAL ILLUSTRATION BY A.C.H



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| Zwo | | | 12 13 14 |
| DATE PURCHASED FROM | PRODUCT | QUANTITY | 4) |
| (1) (1) | ay | | CAS No |
| 3-26-91 Castral | Ro220 High Spin Oil | 5 gal | 64742 - 45-0 1 64742 - 57-0 |
| 2 3-25-91 CASTROL | AW 68 Dydraulie Oil | 55gal | 64742-514-17 |
| 7-25-91 CASTROL | AW Sel | 55 gal | 64742-54-7 |
| 1-16-91 CASTROL | KIEEN 3475 | 15 gal | 1310-58-3 111111111111111111111111111111111111 |
| 5 2-8-91 CASTROL 6 2-8-91 CASTROL | SAFETY COOL 822C | 10 gel | NONE NOT HAZARDOUS |
| 1-49/ CASTROL | | 5 gal | 1310-58-3 |
| 8 1-4-91 CASTROL | AW 68 HYD OIL | 55 gal | 164742-54-7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 9 1-14-91 CASTROL | SAFETY COOL 822C | Sgel | Nave Not HAZARDOUS |
| 10 6-5-91 CASTROL | SAFETY Cool 822C | 55gal 55gal | Nove Not HAZARDOUS |
| 11 9-3-91 CASTROL | GOOLANT 9872C | | NONE NOT HAZARDOUS |
| 12 9-25-91 CASTROL | AUG8 HYDOIL | 55 gal 55 gal | 16 U > U 2 + S U - > 1 |
| 13 11-25-91 CASTROL | COOLANT 9822C | 55 gal | None Not HAZ ALDOUS |
| 14 11-25-91 CASTROL | AW32- HVD 014 | 55 gal | 1116 EV DUZ-1514-17 17 17 17 17 17 17 17 17 17 17 17 17 1 |
| 15 9-2590 CASTROL | W329 Coolant | 55 gal | |
| 16 8-23-90 CASTROL | AW68 HYDO12 | 55 gal | |
| 17 7-24-90 CASTROL | G28 P HYD 014 | 5 gal | 164741-18P-4 |
| 18 7-24-90 CASTROL | Rozko Hyp a/4 | 10gal 55gal | 44742-6570 64742-57-0 |
| 19 6-19-90 CASTROL | W329 HYD 012 | 55 gel | 1 64741-96-4 |
| 20 4-4-90 CASTROL 21 +15-90 70 PANGA OIL | DIE-26 LUBE OIL | 55 gal | 1 64742 - 54-7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 22 12-21-89 CHEMSEARCH | | 35 90 | NONE NOT HAZALDOUS |
| 23 1/Z-89 CASTROL | AW68 HYD OIL | 20 gal 55 gal | None Listes 1 |
| 24 10-11-89 SPECTRUM | NITRIE ACID | | 7697-37-2- |
| 25 8-14-89 SHASTA PETROLEWM | 500 HANGSTEFERS COOLMIT | 10 liters 55gal | |
| 26 8-10-89 3E CHEMICAL | 3500 COO ANT | 55 gal | NOWE - NOT HAZARDOUS 64741-96-4 Roy Hospitan |
| 27 8-10-89 3E CHEMICAL | 4225 HYD 012 | 55 gal | WONE - NOT HAZARDOUS |
| 28 5-20-89 CASTROL | 40329 Hyp 014 | 55gal | 1 6 4 7 4 1 - 9 6 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 29 2-16-87 SHASTA PETROLFUM | SOO HANGSTEFERS COOLANT | 55gal 55gal | Nove 1/67 HARARDOUS |
| 30 FS-89 3E CHEMICAL | 3500 Coolant | 2209al | 6474-96-41 |
| 31 9-28-88 TOPANGA OIL | HD68 012 | 55gal | 64742-574-7 |
| 32 8-5-88 SHASTA PETRO | SOO HANGSTEFERS COLLANT | | NON'S NOT HAZARDOUS |
| 33 8-3-88 3ECHEMICAL 34 3-17-88 CHEMSEARCH | #35 SOLVENT | 55gal | 64742-47-8,64742+95-6,68515-25- |
| 35 2-23-88 3E CHEMICAL | #3480 NATURALIZER 4225 HYD 012 | Rogal | Wet AVAILABLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 36 2.27-88 3E CHEMICAL | 3500 Coolant | 110 gal | NONE NOT HAZARDOUS |
| 37 11-16-87 HOLCHEM CO | NOTRIE ACID | 110 gel | 64741-96-4 Not AAZARDOUS |
| 38 10-15-87 SHASTA PETRO | 500 HANGSTETERS | 348 03 55 gal | NONE NOT MAZARDOUS |
| 39 8-7-87 3 ECHEMICAL | 3500 COOLANT | 210 gal | 64741-96-4 NOT HAZARDOUS |
| 40 8-3-87 3ECHEMICAL | 4225 HYD 014 | 210920 | NOWE NOT HAZARDOUS |
| 41 413-87 Shesta Letro | SOO HANGSTEFERS | 55gal | NONE NOT HAZARDOUS |
| 42 2-19-97 ERNST | #68 HYD O1K | 55 gal | 1 6 4 7 4 12 # 5 9 1 7 |
| 13 12-4-86 SHASTA PETRO | DURO 5-150 HYD 014 | 55 gal 6 | 4742-65-0 1 64742-18-3 |
| 44 10-79-86 CLM 45 9-41-91 CLM | 4225 HYD OV | 2/0gel | NONE NOT HOZARDOUS |
| 45 9-16-86 SHASTA PETRO | SOO HAVE STEPERS | 55 gil | NONE NOT HAZARDOUS |
| 40 5-23-86 CLM 47 4-25-86 SHASTA PETRO | IPA . | Logic | WOZ AVANKABLE III III III III III III III III III I |
| 48 3-2486 CLM | SOO HANGSTEFERS | 55 gel | MONE NOT HORARDULE |
| 49 2-11-86 CLM | NITRIC ACID | 265 gal | Nexe Not 4024Dous 1 |
| 50 2-4-86 CLM | 4225 Hyd Oil | 15 gal | |
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| 1 12-17-85 CLM | 3500 CODLANT | 165 gal | 64741-944 NOT HOZARDOUS |
| 2 10-16-95 SHASTA PETRO | SOO HANGSTEFERS | 55 gal | WONE WOT MAZARDOUS |
| 3 9-12-85 NATIONAL CHEMSEARCH | SS-80 CLEANER | dogal | 9032-32-4,71-554,75-09-2- |
| 1 9-11-85 CLM 5 7-29-85 FAR BEST OIL | SS-1 CLEANER | 55 gal | |
| 6 4-19-85 FAR BEST OIL | 225 HyDO14 | 330 gal | |
| 1 3-5-85 ERNST | SSG/X 6 CoolANT | 55tgal | 1072-1/1 64742-54-7 |
| 8 2-11-8C C/XI | #68 OVL NATRIC ACID | 55 gal | 167742-574-71 |
| 1-7-85 SHASTA PETRO | SOO MANGSTEFER | 15 gal | 7687-37-2- |
| 10 1-4-85 FAR BEST | SJG/X & CODIANT | Ssgal | WONE NOT MAZARDOUS |
| 11 1/-8-84 STINNES-WESTERN | HYDROFZUORIE ACID | 330 gal | 1072-11 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| 12 10-29-14 NATIONAL CHEMSEARCH | Ne123 | 20 60 | 7664-39-3 Nowe 1157ED |
| 13 10-2484 FAR BEST | 225 MD OK | 110000 | #180/12 - \$2,5+1+-#++++++++++++++++++++++++++++++++++ |
| 14 10-24-84 SHASTA PETRO | AW 32 HYD O12 | 30 gal 20 gal 110 gal 55 gal | 8012-847 |
| 5-18-84 ERNST | AW 32 HYD OIK #68 HYD OIK SOO HANGSTERERS | 55 gal | # 6 4 7 4 7 T T T T T T T T T T T T T T T T |
| 16 42484 SHASTA PETRO | SOO HANGSTEFERS | 55 gal | Nove- Not HAZARDOUS |
| 17 4-17-84 FAR BEST | SS61 COOLANT | 330 gal | |
| 18 7-16-84 FAR BEST | 5561 GOOLANT | 330 gal | |
| 19 5-25-84 WESTERN CHEMICAL | NITRIC ACID | 30 gal | 7697-32-2- |
| 20 J. 15-84 ERNST | #68 442 014 | 55 gal | 1 6 4742 - 54-17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 21 /-15-85 CHASE CHEMICAL 22 5-31-84 CLM | LEOSO 4 PROPRIETARY SOLVENT | 55 gal | 64-17-6, 67-56-1, 141-784, 108-10-1, 647-12-12-18-8 |
| 23 | NEUTLAL CLEANER | 110 gal | Not AUXI LABLE |
| 24 | | | ┈┩┩╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╃╇╇ |
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| 6 3-6-91 METALUBE | BLUE GOLD | HONE N | OT HAZARDOUS - NONE |
| 1/-19-9/ 1/ | | 110 gel | |
| 8 3-28-90 1 | - [- [- | 110 gal. | |
| 8-9-99 11 1-13-13-11 | | 110 gal | |
| | | 11091 | |
| 1077-88 11 9-23-87 11 | | 110gal | |
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| 6-16-86 " | | 1094 | |
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| | UNIFORM HAZARDOUS | s US EPA ID No. | Manifest | , 2. F | Page 1 Inform | ntion in th | a obodod stoop |
|-----|--|--|---|--|---|---------------------------------------|---------------------------------------|
| • | WASTE MANIFEST | in la ki la la la la la la | Document No. | 1 | | | ne shaded areas by Federal law. |
| | Generator's Name and Mailing Address | 1 | خلبا چا دا | A. Sta | ite Manifest Docu | ment Num | ber |
| | Allen Aircraft | v V | | | 899 | 551 | .95 |
| ļ | 11643 Van Owen North Ho | 11ywood CA 91609 | | B. Sta | ite Generator's ID | | |
| | 4. Generator's Phone (213) 377 0941 | <u> </u> | | | | | |
| | 5. Transporter 1 Company Name | 6. US EPA ID Numb | ber | 1 | ite Transporter's | 2 | Q 6/4 |
| | POZUK CIL A VAC. INC. 7. Transporter 2 Company Name | 8. US EPA ID Numi | | <u> </u> | nsporter's Phone | 313 | H3 5711 |
| - | 7. Hansporter 2 Company Name | 6. US EPA IU NUMI | per | | nsporter's Phone | D | * |
| | Designated Facility Name and Site Address | 10. US EPA ID Numi | ber | <u> </u> | ite Facility's ID | | |
| | DeMenno/Kerdoon | | J | 1 | | اداما | احاجاجا |
| | 2000 N. Alameda | | | H. Fa | cilify's Phone |) | 31313121 |
| į | Compton. CA 90222 | Idaldolalolala | 12 2 5 2 | ا ا | 10.527.736 | 30 | |
| - | 11. US DOT Description (Including Proper Shipping Name, | Hazard Class and ID Number) | 12. Con | ainers | 13. Total Quantity | 14. Unit | l. Waste N |
| | | Tracard Oracs, and 10 Hembery | No. | Туре | Quantity | Wt/Vol | |
| | a. | | | | | | State 222 |
| | | | | | 2 | ŀ | EPA/Other |
| | Sazardous Washe Liquid U.O.S b. | 5. orn-o NA 9189 | <u> 0 0 1</u> | 2 2 | DOBION | 7= | State |
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| | FOR RECYCLARES CANADA | TTY DI COMPTON, | | | | | EPA/Other |
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| - | d. CALIFORNIA A PROPERTY | DYRT GREATAS | | | | | State |
| ļ | PERMITS TO FIGURE (FILE) | ### Janua (1901:3352 - 1 | | | | | EPA/Other |
| | J. Additional Descriptions for Materials Listed Above | | | <u> </u> | | | |
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| | j | | * * **** · * | C. | ····'』 🎍 | d. | |
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| . | 15. Special Handling Instructions and Additional Information | n | | <u></u> | | <u>. I </u> | |
| | Appropriate protective cloth | nd mer | | | | | |
| ļ | ERG#31 | ••••• | | | | | |
| - | Emer. # 213 8770941 | | | | · | | |
| - | 16. | | | | | | |
| | GENERATOR'S CERTIFICATION: I hereby declare the and are classified, packed, marked, and labeled, and | hat the contents of this consignmen are in all respects in proper conditi | it are fully and a on for transport | ccurately by highv | y described above vay according to a | by prope | er shipping name international and |
| | national government regulations. If I am a large quantity generator, I certify that I have a | ^ | | | | | |
| | I To be economically practicable and that I have selecte | ed the practicable method of treatm | ent storage or | diennea | Loureantly availab | | والمستستست كمتك |
| 7 | present and future threat to human health and the env generation and select the best waste management me | ethod that is available to me and th | ity generator, i r at I can afford. | ave mad | de a good faith ef | fort to mir | nimize my waste |
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| | 17. Transporter 1 Acknowledgement of Réceipt of Materia | ils g | 200 | and the | | | |
| , | Printed/Typed Name | /. Signature | - John John John St. | | | | Month Day |
| , | townson the Most | Marie San | W. S. | | > | | V 1 1 |
| , | | ils 💉 📝 | January 1 | | | | |
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| , | 18. Transporter 2 Acknowledgement of Receipt of Material Printed/Typed Name | Signature | | | | | , |
| , | Printed/Typed Name | | | | | | <u> </u> |
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| , , | Printed/Typed Name 19. Discrepancy Indication Space | Signature | monife d | | 12 . 7 | , , , , , , , , , , , , , , , , , , , | |
| , | Printed/Typed Name 19. Discrepancy Indication Space 20. Facility Owner or Operator Certification of receipt of h | Signature Signature | s manifest excep | it as not | ed in Item 19. | ٠ و بر سماد | |
| | Printed/Typed Name 19. Discrepancy Indication Space | Signature | s manifest excep | t as not | d in Item 19. | ٠ و المواد | |

| e print or type. (Form designed for use on E | 12-pitch typewriter). | | | | 000000000000000000000000000000000000000 |
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| UNIFORM HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 | 1 | n the shaded areas ed by Federal law. |
| 3. Generator's Name and Mailing Address | = ¥ = D | | A. State Manife | | |
| Allan Aircraft | 18 1901 | | | 8 82 73 | 3304 |
| | Hollywood CX 9160 | 9 | B. State Genera | ator's ID | |
| | ALLAN NOO | | | | |
| 5. Transporter 1 Company Name | 6. OF DS EPA IC | | C. State Transp | | |
| ROZUK OIL & VAC. INC. | C A D 19 13 10 | <u> 7 3 5 1 4 6 </u> | D. Transporter's | | 443-6744 |
| 7. Transporter 2 Company Name | 8. US EPA II | Number | E. State Transp | | |
| Designated Facility Name and Site Addres | SS 10. US EPA ID | N | F. Transporter's | | |
| Deilenno/Kerdoon | S 10. US EPA IL | Number | G. State Facilit | • | |
| 2000 N. Alameda | | | C A T C | 0 8 0 0 | 1 3 3 5 2 |
| Compton CA 90222 | t sala huma ta ta ta | 1 - 1 - 1 - 1 - 1 | | | |
| Joseph Grand | ICAT OBO | 0 1 3 3 5 2 12. Cont | | | 4. T I. |
| 11. US DOT Description (Including Proper Sh | ipping Name, Hazard Class, and ID Numbe | er) No. | ı Qı | uantity Un | it Waste No. |
| a. | | NO. | Туре | Wt/ | Voi State |
| | | | | | 222 EPA/Other |
| Hazardous Waste Liquid | V.OS. OFFINA NA 9180 | 1 α ο | THE CO. L. | | |
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| d. DERMITS TO RECE | PA NUMBER IS CATO80013352 | | | - | State |
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| QUALITIES SO | | | | 1.1 | EPA/Other |
| J. Additional Descriptions for Materials,Liste | d Above | | | des for Waste | s Listed Above |
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| | | | С. | d. | |
| | | | · . | a. | |
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| 15. Special Handling Instructions and Additio | | | | | |
| Appropriate protective | clothing | | | | |
| ERG#31 | | | | | |
| Emerg.# 213 877 0941 | | | | | |
| 16. | | | | | |
| GENERATOR'S CERTIFICATION: I her and are classified, packed, marked, and | eby declare that the contents of this consi- labeled, and are in all respects in proper | ignment are fully and a condition for transport | ccurately describe by highway accor | ed above by pr | oper shipping name |
| national government regulations. | | poor | | | |
| to be economically practicable and that | y that I have a program in place to reduce I have selected the practicable method of | treatment, storage, or | disposal currently | available to n | as which minimizes the |
| present and future threat to human healt | th and the environment; OR, if I am a small anagement method that is available to me | l quantity generator, I h | ave made a good | faith effort to | minimize my waste |
| Printed/Typed Name | Signature | die mari dan anord. | | | 14 |
| 1 1/2 2/ | digitative | and the second | | <i>*</i> | Month Day Year |
| 17: Transporter 1 Acknowledgement of Rece | sipt of Materials | Committee of the second | 1 1/2 - James | | |
| Printed/Typed Name | Signature | | | - | Month Day Va |
| Transact Types Name | Oignature | • | and the same of | | Month Day Year |
| 18. Transporter 2 Acknowledgement of Rece | eipt of Materials | * | | | |
| Printed/Typed Name | Signature | | | | Month Day Year |
| | Signature | | | | mondi Day Tear |
| 19. Discrepancy Indication Space | | | | | |
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| 20. Facility Owner or Operator Certification | of receipt of hazardous materials covered | by this manifest excep | ot as noted in Item | 19. | |
| Printed/Typed Name | Signature | 10 | | | Month Day Year |
| La Francisco | | 1800 | | | r9r41911 |

TRANSPORTER

CALL 1-800-852-7550

CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802;

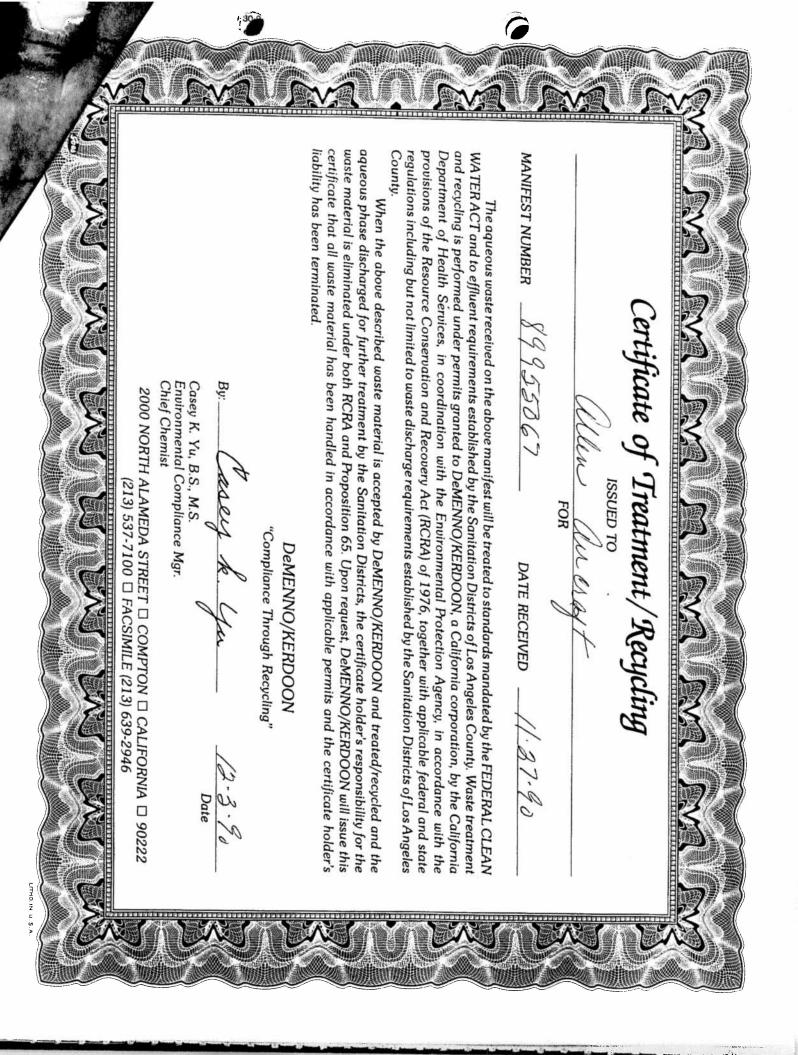
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EPA 8700—22 (Rev. 9-88) Previous editions are obsolete

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

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| Dog | Manifest cument No. | 2. Page of | Intorma | | e shaded areas by Federal law. |
| 3. Generator's Name and Mailing Address | olols l4 | 11 | nifest Docum | | = |
| Allan Aircraft | | | _882 | | 354 / |
| 11643 Van Owen North Hollywood, CA 91609 | | B. State Ge | nerator's ID | | |
| | | | <u> 1000</u> | | 71815141 |
| 5. Transporter 1 Company Name 6. US EPA ID Number | | | ansporter's IC | 010 | 546 |
| Rozuk Oil & Vacuum Tric. C A D O 8 O 7 3 0 7. Transporter 2 Company Name 8. US EPA ID Number | 5 1 4 6 | D. Transpor | | 819 | 42 6744 |
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| | 3 3 5 2 12. Conta | 213 S | 37-7100 | 14. | i. |
| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | No. | Туре | Quantity | Unit | Waste No. |
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| Hazardous Waste Liquid N.O.S. orm-a NA 9189 | ALOI 1 | TITOE | DOWN | _ | EPA/Other |
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| . Additional Descriptions for Materials Listed Above | | | Codes for W | | |
| 5. Special Handling Instructions and Additional Information APPROPRIATE PROTECTIVE CLOTHING G # 27 | | | | | |
| | | | rihad abovo l | oy proper | shipping name |
| GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition for national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment: OR, if I am a small guantity or | or transport by e and toxicity storage, or di | of waste ge | cording to ap | degree | nternational and I have determined |
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88270054 in case of an emergency or spill, call the national response center 1-800-424-8802; within california call 1-800-852-7550

700—22 88) Previous editions are obsolete.

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(Form designed for use on elite (12-pitch) typewriter (53975 Please print or type. UNIFORM HAZARDOUS Generator's US EPA ID No Manifest 2. Page Irformation in the shaded areas is not required by Federal **WASTE MANIFEST** Document No. Generator's Name and Mailing Address State Manifest Document Number 84233332 ALLAN AIRCRAFT SUPPLY CO. 11643 VANOWEN ST. NO HOLLYWOOD, CA. 91609
Generator's Phone (212)
Transporter 1 Company Wame 877-0941 6. US EPA ID No B.State Generator's ID C.State Transporter's US EPA ID Number Transporter 2 Company Name D.Transporter's Phone US PAYD Number E. State Transporter (2113) 321-1392 F. Transporter's Phone 62702 9. Designated Facility Name and Site Address US EPA ID Number G.State Facility's ID DE MENNO/KERDOON 020013252 Phone 2000 N. ALAMEDA CAT080013352 COMPTON. CA. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number 12.Containers (213) 537-7100 Total Unit Type Waste No. a. Quantity Mt/Vo Ε N Ε HAZARDOUS WAISTE NOS/ORME NA9189 R b01 1000 b. T 0 R C. d. J. Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Listed Above 95% WATER, 5% WIL 01 Special Handling Instructions and Additional Information GLOVES AND GOGGLES 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. RAY TERRONES Date Printed/Typed Name Signature Month Day Year 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Year 18. Transporter 2 Acknowledgement or Receipt of Materials Date Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Date Signature Month Day Year

DHS 8022 A (7/84) (EPA 8700-22)

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

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Department of Health Services Toxic Substances Control Division Sacramento, California

| ngint or type. (Form designed for use on elite | (12-pitch) typewriter.) All | | | | Sa | cramento, Califo |
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| | | | AS | A Manifest | Documen | t Number |
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| 11643 VANOWEN ST. N. 4 Generator's Phone (213) 87- 5 Transporter 1 Company Name | HOLLYWOOD, CA. 91609 | | 6.3 | ate Generator | 's ID | |
| ACRITICATE OFF | 6. US EPA ID N | umber | C.Si | ate Transporte | er's ID | |
| 7. Transporter 2 Company Name | | | D.Tr | ansporter's Ph | one. | 52644 |
| , , , , , , , , , , , , , , , , , , , | 8. US EPA ID N | | | ate Transporte | | 3) 321-1 |
| 9. Designated Facility Name and Site A | Address 10. US EPA ID No | | | ensporter's Ph | | |
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| 2000 N. ALAMEDA | CAT080013352 | | H.Fa | cility's Phone | رب | 10002 |
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| 11. US DOT Description (Including Proper S. | hipping Name, Hazard Class, and ID Numi | beri 12.Con | tainers | 13. | 7100 | 1. |
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| 95% WATER, 5% OIL. | | | | | | |
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| 5. Special Handling Instructions and Addi | itional Information | | 1 | | | *** |
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| CLOVES AND COOKER | | | | | | |
| GLOVES AND GOGGLES | | | | | | |
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| above by proper shipping name and are class transport by highway according to applicab RAY TERRONES | ssified, packed, marked, and labeled, and a | re in all resp | ects in p | curately descri Proper condition | ibed Tor | |
| RAY TERRONES | | al regulation | S. | | _ | |
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| 7. Transporter 1 Acknowledgement of Rec Printed/Typed Name | | | | | | Date |
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| Printed/Typed Name | Signature | | | | | Date |
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| 9. Discrepancy Indication Space | | | | | | |
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|). Facility Owner or Operator: Certification of Item 19. | of receipt of hazardous materials covered | by this ma | nifest e | xcept as noted | l in | |
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| e of California—Health and Welfare Agency | $Ma_{\mathcal{E}_{\alpha_{\alpha_{\alpha_{\alpha_{\alpha_{\alpha_{\alpha_{\alpha_{\alpha_{\alpha_{\alpha_{\alpha_{\alpha_$ | | | | | nt of Health Se ices Control Di |
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| se print or type. (Form designed for use on elite (12-pitch) typew | | | | | | |
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| 3. Generator's Name and Mailing Address | r_{J} | | A,Sta | te Manifest D | ocumer | nt Number |
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| ALLAN AIRCRAFT | 02, GA. 71009 | | B.Sta | te Generator's | JD. | |
| 4. Generator's Phone (213) 877-0941 | | | | | | |
| 5. Transporter 1 Company Name | 6. US EPA ID Numi | nor . | C 840 | • T | 'a ID = | |
| ASBURY OIL | | | C.31a | te Transporter | SIU | |
| 7. Transporter 2 Company Name | C AD028277036 8. US EPA ID Numb | | J. C. C. | nsporter's Pho | P21 3 | 321-1 |
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| 2000 N. ALAMEDA | | | H.Fac | ility's Phone | | - |
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| J. Additional Descriptions for Materials Listed Above | | | • | | | |
| 95% WATER 5% OLL | | | 01 | | | |
| 15. Special Handling Instructions and Additional Inform | nation | | | | | |
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| GLOVES AND GOGGLES | | | | | | |
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| 6. GENERATOR'S CERTIFICATION: I hereby declare the | at the contents of this consignm | ent are ful | ly and a | ccurately decor | ibad | |
| above by proper shipping name and are classified inacks | ed marked and labeled and are | in all room | acte in | proper condition | n for | |
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| 9. Discrepancy Indication Space | | | | | | |
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State of California - Health and Welfare Agency Department of Health Services HAZARDOUS WASTE MANAGEMENT BRANCH UNIFORM HAZARDOUS WASTE MANIFE. 744 P Street * Sacramento, CA 95814 STATE ID NUMBER 8 3039375 Please print or type with ELITE type (12 characters per inch). RECEIVED GENERATOR NAME AND MAILING ADDRESS MANIFEST DOCUMENT NUMBER ALLAN AIRCRAFT 11643 VANOWEN EPA ID NUMBER AREA CODE/PHONE NUMBER, CA. 91609 EXEMPT TRANSPORTER NO. 1 VEH./CONTAINER NO. EPA ID NUMBER ASBURY OIL CO. 2100 N. ALAMETA COMPTON, CA. 90232 CADO 1821 TRANSPORTER NO. 2/ALTERNATE TSD FACILITY VEH./CONTAINER NO. TREATMENT, STORAGE, OR DISPOSAL (TSD) FACILITY EPA ID NUMBER DEMENNO KERDOON BE FILLED IN BY GENERATOR 2000 N. ALAMETA COMPTON, CA. 90232
AREA CODE/PHONE NUMBER CIA TO 8 0 0 13 3 5 12 UN/NA PROPER U.S. D.O.T. SHIPPING NAME AND HAZARD CLASS TOTAL UNIT CONTAINER WASTE DISP. NUMBER QUANTITY WT/VOL ÑΟ. TYPE CAT NO. METH HAZARDOUS WASTE LIQUID NOS U N 9 1 89 1 000 0 10 11 CIT CONC. RANGE COMPONENTS UNITS 9 UPPER LOWER % PPM WATER 99 OIL 1 X SPECIAL HANDLING INSTRUCTIONS **GLOVES** This is to certify that the above-named wastes are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable requirements of the Department of Transportation MO.

YR. ~ d.k.quez Printed or typed full name and signature 7 ☐ Check if continuation sheet is used. Number of continuation sheets TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF ABOVE WASTES MO DAY DATE YR. REC'D & Printed or typed full name and signature ACCEPTED TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF ABOVE WASTES DATE MO. DAY YR. REC'D R, Printed or typed full name and signature ACCEPTED DISCREPANCY INDICATION SPACE

BE FILLED IN TRANSPORTER

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BE FILLED BY TSDF

Facility owner or operator: Certification of receipt of hazardous waste covered by this manifest except as noted in the discrepancy indication space above. Note: TSDF must complete waste

DATE RECEIVED & ACCEPTED MO. DAY

DAY

See reverse side for Instructions.
Please type or print clearly. Press Hard INV 26, 1984 RECEIVE COALIFORNIA HAZARDOUS WASTE MANIFEST

State Department of Health Services

State Department of Health Services

AZARDOUS MATERIALS MANAGEMENT SECTION

744 P Street, Secremento, CA 95814

(1) Manifest | 0 1 5 - 008979

| GENERATUR'S COPY FROM TSDF | Authorized Agent and Title | Signature of Author | (23) | | 77 | 0.00 | EPA NO. |
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| | | 7 | ED TSD FACILI | THE DESIGNAT | ERE, SPECIFY | | 1F WASTE IS HELD FI |
| ecify) | | | AND | EN MANIFEST | NCIES BETWE | (20) INDICATE ANY SIGNIFICANT DISCREPANCIES BETWEEN MANIFEST AND SHIPMENT: | 20) INDICATE ANY SHIPMENT: |
| (21) HANDLING OR DISPOSAL METHOD: □ Surface Impoundment □ Landfill □ Injection Well □ Land Treatment | ————————————————————————————————————— | \$ | QUANTITY (If Measured)- STATE FEE (If Any) | (18) QUANTII (19) STATE FI | 1.1 | | 17) NAME |
| | | | | E) | UST COMPLET | (FACILITY-OPERATOR MUST COMPLETE) | TSD FACILITY (F |
| 7/1/2 / // Date / 8 | Signature of Authorized Agent and Title | 16 Toke | (213) 321-1392 | PHONE NO. (213) | | 13419 Halldale Avenue ZIP Gardena, California 90249 | ADDRESS 13419 H |
| TIME 10:00 SAM PM | | JOB NO. | | | 7036 | (HAULER MUST COMPLETE ASBURY OIL CO. | 14) NAME A EPA NO. CA |
| Date Shipped | Authorized Agent and Title | Signature of Author | (13) | nd EPA. | NATIONAL 800-424-8802 | the applicable regulations of the Department of Transportation and EPA. IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802 Signature of Author | RESPONSE CENTER, |
| | | Other | urry Gas | Sludge | quid ☐ S | PHYSICAL STATE: Solid Liquid SPECIAL HANDLING INSTRUCTIONS: SP | PHYSICAL STATE SPECIAL HANDLII |
| ☐ Carcinogen/Mutagen | Hazardous Material / U % ☐ Reactive ☐ Sensitizer | 9 | ☐ % ☐ ppm. G ☐ % ☐ ppm. N ☐ Corrosive/Irritant | ☐ Flammable | ☐ Toxic | TIES: pH 7 | D |
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| Zip | City, State, Zip | pton, | Zip ora | te, | , a | ORDER | Order Placed By |
| | EPA NO. | 08001 | 1 C AF | EPA NO. | No. | Molly work | Address // 42 |
| (4) ALIEHNAIE ISD FACILITY DER AN APPROVED STATE OR FEDERAL PROGRAM) Name | TE UNDER AN APPROVED ST | SD FACILITY (AUTHORIZED TO OPERATE UN | NATED T | Name D | COM E | Generator Must Complete) | ATOR |
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FIVE GALIFORNIA HAZARDOUS WASTE MANIFEST

See reverse side for Instructions.
Please type or print clearly. Press Hard.

GENERATOR LEGenerator Must Complete IRCHAFT SLP 26 1984 (3) Designated TSD Facility (Authorized to operate under an State Department of Health Services
HAZARDOUS MATERIALS MANAGEMENT SECTION
744 P Street, Sacramento, CA 95814 (4) Alternate TSD Facility (1) Manifest 0 1 5 - 005800

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| IN THE EVENT OF A SPILL, CONTACT THE NATIONAL BESPONSE CENTER ITS COAST GLIABD 1 200 424 2002 | GENERATOR CERTIFICATION: This is to certify that the above name the applicable regulations of the Department of Transportation and EPA $$ | (12) SPECIAL HANDLING INSTRUCTIONS: | 1) PHYSICAL STATE: 🗌 Solid | 10) WASTE PROPERTIES: pH_ | D. (. | В. | ₽ | | 6) WASTE CATEGORY | WASTE | WASTE WATER + DIC | (5) U.S. DOT PROPER SHIPPING NAME | City, State, Zip Mo. Holly Word CA | Address 11643 V An one Phone No. | EPA NO. | 2) Name | |
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| 1 | GENERATOR CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked, labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and EPA. | | | | % . □ ppm. | % □ ppm. | l % □ ppm. | o ∵i | | | | | | | | | , |
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| IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802 | (a) 17/84 (a) 17/84 (b) 17/84 |
| RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802 | Signature of Authorized Agent and Title Date Symposis |
| RANSPORTER (HAULER MUST COMPLETE) | |
| ASBURY OIL CO. | 12 PICKLIP DATE 9 /17 /84 |
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| | (14) NAME ASBURY OIL CO. | (15) PICK-UP DATE 9 /17 /84 |
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| | NO. (213) 321-1392 | for strange (DA) rat |
| | CITY, STATE, ZIP Gardena, California 90249 | ent a |
| | TSD FACILITY (FACILITY OPERATOR, MUST COMPLETE) | *************************************** |
| | (17) NAME / //////// Heasured) 18 QUANTITY (If Measured) | (21) HANDLING OR DISPOSAL METHOD: |
| | EPA NO 19 17 0 2 0 0 1 3 5 1 2 19 STATE FEE (If Any) | Surface Impoundment |
| | PHONE NO 537 7/00 | ☐ Injection Well ☐ Land Treatment |
| | (20) INDICATE ANY SIGNIFICANT DISCREPANCIES BETWEEN MANIFEST AND | ☐ Treatment (Specify) |
| | F WASTE IS HELD FOR DELIVERY ELSEWHERE, SPECIFY THE DESIGNATED TSD FACILITY: | ☐ Recovery or Reuse ☐ Storage/Transfer |
| 4 | 2) NAME | |
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68976 that 1/2

Signature of Authorized Agent and Title

TO GENERATOR Date Accepted

| TO GENERATOR | 67370 (MM) 1/2 |
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| Signature of Authorized Agent and Title Date Accepted | |
| FUNDAMENT - OF EXHATE 1/31/8V | EPA NO. |
| of concent | (22) NAME |
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| * | TSD FACILITY OPERATOR MUST COMPLETE) |
| gent and Title | CITY, STATE, ZIP Gardena, California 90249 |
| A A | Venue PHONE NO. (213) 321-1392 |
| TIME Z Z A AM ZIL | N |
| (15) PICK-UP DATE 7/3 | 4! |
| | TRANSPORTER (HAULER MUST COMPLETE) |
| Signatura of Authorized Agent and Title Date Syloped | RESPONSE CENTER, U.S. COAST GUAR 1800424 8802 |
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| arly classified, described, packaged, marked, labeled, and are in proper condition for transportation according to | GENERATOR CERTIFICATION: This is to certify that the above named materials are properly classified, the applicable regulations of the Department of Transportation and EPA. |
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| Gas Other | PHYSICAL STATE: Solid General Studge Sturry |
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| oin 1 tow City, State, Zip | ite, Zip Ma, Holly w. J. D. C. T. 1609 City, State, Zip |
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| TE MANIFEST | AUG 13 CALIFO |

Please type or print clearly. Press RECEIVED CALIFORNIA HAZARDOUS WASTE MANIFEST State Department of Health Services HAZARDOUS MATERIALS MANAGEMENT SECTION ① Manifest 0 15 - 005731

| pate Accepted | Cignorpio of America Agent Find 1100 | THE PERSON NAMED IN COLUMN 1 WHEN THE PE | |
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| Date Accepted | Signature of Authorized Agent and Title | (23) | |
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| Date | Signature of Authorized Agent and Title | | ITY, STATE, ZIP Gardena, California 90249 |
| 100/01/01/01/01 | John Kharay (30 | PHONE NO. (213) 321-1392 | DDRESS 13419 Halldale Avenue PHONE NO |
| TIME 2 .O D AM YEAR OF | | 36 | V. |
| (B) PICK-UP DATE 6/1 | | | ASBURY OIL CO. |
| · · · · · · · · · · · · · · · · · · · | | | RANSPORTER (HAULER MUST COMPLETE) |
| Date Shipped | Signature of Authorized Agent and Title | 124-8802 (13) — | RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802 |
| | | | IN THE EVENT OF A SBILL CONTACT THE NAT |
| marked, labeled, and are in proper condition for transportation according to | >· | at the above named materials are properly ortation and EPA. | SENERATOR CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged he applicable regulations of the Department of Transportation and EPA. |
| | or Uther | Goggles Hespirator | SPECIAL HANDLING INSTHUCTIONS: |
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| Carcinogen/Mutagen | ☐ Corrosive/Irritant ☐ Reactive ☐ Sensitizer | Flammable [| WASTE PROPERTIES: |
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| 4) Alternate TSD Facility | Designated TSD Facility (Authorized to operate under an approved state program or federal program) | (3) Designated TSD Faci approved state progr | Generator Must Complete) |
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TO GENERATOR

HAZARDOUS WASTE MANAGEMENT BRANCH 714-744 P Street

UNIFORM HAZARDOUS WASTE MANIFES.

| Sacrament | to, CA 95814 | RECE | 14 | | | | |
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| | N. Hollywood, Ca | 91609 | / | | | | |
| | TRANSPORTER NO. 1 | | *************************************** | CONTAINER NO | 0 01015 | 13 19 17 15 | JMBER |
| | Oil & Solvent Process | g Company | | | | | WIDEII |
| | 1704 West First Street | et | | | | | |
| | | 1702 | | 4157 | - | | |
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| 2 | TREATMENT, STORAGE, OR DISPOSAL (TSD) |) FACILITY | | | | | |
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| JO-BE FILLED IN BY TSDF | Facility owner or operator: Certification of rece | int of hazardous waste covered by | this manifest avenue | noted := +* | | | 400==== |
| 9, ≧ | discrepancy indication space above. Note: TSDF See instructions. | t Must complete waste number | | | | E RECEIVED & | ACCEPTED YR. |
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| (23) | TSD FACILITY (FACILITY) (PACILITY) (PACILITY) (PACILITY) (PACILITY) (A USUPACION (A) (B) (C) (C) (C) (C) (C) (C) (C | (15) PICK-UP DATE 2-1 | GENERATOR CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked, labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and EPA. IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802 (3) Signature of Authorized Agent and Title Date Shipped | | CALIFORNIA HAZARDOUS WASTE MANIFEST CALIFORNIA HAZARDOUS WASTE MANIFEST Day |
|------|--|-----------------------|--|--|---|
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(22) NAME ĘPA NO. IF WASTE IS HELD FOR DELIVERY ELSEWHERE, SPECIFY THE DESIGNATED TSD FACILITY: SHIPMENT PHONE NO. EPA NO. (17) NAME CITY, STATE, ZIP_ (20) INDICATE ANY SIGNIFICANT DISCREPANCIES BETWEEN MANIFEST AND See reverse side for Instructions. Please type or print clearly. Press Hard. ADunéSS TRANSPORTER GENERATOR CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked, labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and EPA. (11) PHYSICAL STATE: TSD FACILITY (12) SPECIAL HANDLING INSTRUCTIONS: (10) WASTE PROPERTIES: pH (14) NAME (6) WASTE CATEGORY_ Address Order Placed By City, State, Zip 👱 EPA NO. IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802 2) Name GENERATOR WASTE WASTE 'ST COMPONENTS U.S. DOT PROPER SHIPPING NAME 13419 Halidale Avenue C A D 0 2 8 2 (FACILITY-OPERATOR MUST COMPLETE) (HAULER MUST COMPLETE) (Generator Must Complete) ASBURY OIL CO. Gardena, California 90249 WHOTHER LA CHONE NO ☐ Solid 77036 Liquid Gloves CONC. 0 HAZARD CLASS _ (7) EX. HAZ. WASTE PERMIT NO. PHONE NO. (213) 321-1392 ☐ Sludge RANGE ☐ Goggles ☐ Flammable (3) DESIGNATED TSD FACILITY Phone No. Address EPA NO. Name_ State Department of Health Services HAZARDOUS MATERIALS MANAGEMENT SECTION 744 P Street, Sacramento, CA 95814 ID NO. □ Slurry □ % □ ppm □ % □ ppm. D ppm. Ppm. Respirator ☐ Corrosive/Irritant VOLUME ➂ 000 □ ଜଃ (4) ALTERNATE TSD FACILITY RECEIVED Cavine UNIT NO. JOB NO. ☐ Other □ Other 10/5 Signature of Authorized Agent and Title Non Hazardous Material UNITS ☐ Reactive (8) GENERATING PROCESS Authorized Agent and Title TYPE: DRUMS D TANK TRUCK OTHER CONTAINERS: NUMBER ☐ Sensitizer 100 Name_ EPA NO Phone No. City, State, Address (21) HANDLING OR DISPOSAL METHOD: ☐ BAGS ☐ CARTONS ☐ DUMP TRUCK (15) PICK-UP DATE (1) Manifest | 0 | 1 | 5 | - 007067 ☐ Recovery or Reuse ☐ Treatment (Specify) ☐ Injection Well Surface Impoundment ☐ Carcinogen/Mutagen TIME 930 UPPER CONC. RANGE MA AM LOWER Stor WHC 1 1 1983 ALL AN AIDCRAFT Landfill % | | □ % □ % □ ppm. UNITS ☐ ppm. ☐ ppm.

GENERATOR'S

CALIFORNIA HAZARDOUS WASTE MANIFEST

EPA NO. See reverse side for Instructions. Please type or print clearly. Press Hard. IF WASTE IS HELD FOR DELIVERY ELSEWHERE, SPECIFY THE DESIGNATED TSD FACILITY: SHIPMENT PHONE NO EPA NÕ (22) NAME (20) INDICATE ANY SIGNIFICANT DISCREPANCIES BETWEEN MANIFEST AND (17) NAME CITY, STATE, ZIP. **ADDRESS** Ψ (14) NAME TRANSPORTER (12) SPECIAL HANDLING INSTRUCTIONS: (6) WASTE CATEGORY... (10) WASTE PROPERTIES: pH GENERATOR CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked, labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and EPA. <u>@</u> TSD FACILITY (2) Name EPA NO. City, State, Zip Address IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802 GENERATOR WASTE WASTE PHYSICAL STATE: U.S. DOT PROPER SHIPPING NAME 13419 Halldale Avenue A D 0 2 8 2 7 7 0 3 6 (HAULER MUST COMPLETE) Generator Must Complete) (FACILITY OPERATOR MUST COMPLETE) Gardena, California 90249 ASBURY OIL CO ☐ Solid PHONE NO. (213) 321-1392 Liquid ☐ Gloves □ Toxic HAZARD CLASS ☐ Sludge (CALIFORNIA HAZARDOUS WASTE MANIFEST **EX. HAZ. WASTE PERMIT NO** 19 STATE FEE (If Any) 18 QUANTITY (If Measured) ☐ Goggles ☐ Respirator ☐ Flammable RANGE City, State, Zip EPA NO Address __ 3 Designated TSD Facility (Authorized to operate under an State Department of Health Services HAZARDOUS MATERIALS MANAGEMENT SECTION 744 P Street, Sacrarrento, CA 95814 ID NO. approved state program or tederal program) □ Slurry □ % □ ppm. ☐ % ☐ ppm [% □ ppm. % □ ppm ☐ Corrosive/Irritant VOLUME ☐ Gas ☐ Other ☐ Other Non Hazardous Material UNITS ignature of Authorized Agent and Title ☐ Reactive (8) GENERATING PROCESS of Authorized Agent and Title CONTAINERS NUMBER: TYPE: □ DRUMS ☐ Sensitizer OHIER TRUCK Name (4) Alternate TSD Facility City, State, Zip EPA NO Address (21) HANDLING OR DISPOSAL METHOD: ☐ BAGS ☐ CARTONS (1) Manifest | 0 1 5 - 004591 (15) PICK-UP DATE _ ☐ Treatment (Specify) ☐ Recovery or Reuse ☐ Injection Well ☐ Surface Impoundment ☐ Carcinogen/Mutagen TIME 33 UPPER RANGE Land Treatment ☐ Storage/Transfer Landfill Date □% □ ppm. □ % □ ppm. □ % □ ppm. STIND

Signature of Authorized Agent and Title

TO GENERATOR

| State Department of Health Services State Department of Health Services HAZARDOUS MATERIALS MANAGEMENT SE 744 P Street, Sacrarrento, (A 95814 3) Designated TSD Facility (Authorized to operate approved state program or federal program) Name | Under an (4) Alternate TSD Facility Name EPA NO. City, State, Zip CONTAINERS NUMBER: DRUMS: DRUMS: DRUMS: DRUMS: DRUMS: DRUMS: DRUMS: DRUMS: DRUMS: DRUMP TRUCK CONTAINER NUMBER: DRUMP TRUCK DRUMP TRUCK Seneral |
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| WASTE CATEGORY TOWER | Sensitizer Carcinogen/Mutagen Sansitizer Carcinogen/Mutagen Carc |
| TRANSPORTER (A) NAME ASBURY OIL CO. EF ASDRESS 13419 Halldale Avenue ADDRESS 13419 Halldale Avenue ADDRESS GENERATOR CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, mand the property classified above named materials are properly classified, described, packaged, mand the property classified above named materials are properly classified, described, packaged, mand the properly classified above named materials are properly classified, described, packaged, mand the properly classified above named materials are properly classified, described, packaged, mand the properly classified and the properly classified are properly classified, described, packaged, mand the properly classified are properly classified above named materials are properly classified, described, packaged, mand the properly classified are properly classified are properly classified, described, packaged, mand the properly classified are properly | |
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| PHONE NO | ☐ Injection Well ☐ Land Treatment ☐ Treatment (Specify) ☐ Recovery or Reuse ☐ Storage/Transfer |
| IF WASTE IS HELD FOR DELIVERY ELSEWHERE, SPECIFY THE DESIGNATED TSD FACILITY: (22) NAME (23) Signature of Authorized Agent and Title | 10/13 To |
| | 10 0 |

| Copy 3—PINK: To Generator from TSDF Copy 4—GOLDENROD: Generator Keeps (Send Copy to DOHS) | Copy 1-WHITE: TSD Facility Keeps (Send Copy to DOHS) Copy 2-YELLOW: To Transporter from TSDF |
|---|--|
| Date Accepted | 23 Signature of Authorized Agent and Title |
| EPA NO. | 22 Designated TSD Facility Name |
| | 20 INDICATE ANY SIGNIFICANT DISCREPANCIES BETWEEN MANIFEST AND SHIPMENT: |
| Recycling | PHONE NO. (213) 334-5117 |
| ☐ Recycling for Customer | Oil and Solven |
| | TSD FACILITY (FACILITY-OPERATOR MUST COMPLETE) |
| Signature of Authorized Agent and Title (ORIVER) 3-23-82 | CITY, STATE, ZIP Azusa, California 91702 |
| 0 | 1704 West First Street |
| ATE | TRANSPORTER (HAULER MUST COMPLETE) |
| nt and Title RAY TERPONES Date Shipped | 2 |
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| 3 | id Sludge Slurry |
| Non-Hazardous Material | 10 WASTE PROPERTIES: pH 6 Toxic Flammable Corrosive/Irritant Reactive |
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| F | 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 7 | 9 A ST COMPONENTS: UPPER LOWER UNITS |
| 8 Generating Process PARTS HOT DECREASING | 63 |
| 0 13-0510 | |
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| 91702 | CLUVE FOR CAL. 71607City, State, Zip Azusa, Calli |
| Phone (213) 334-5117 Address | SILL 45 VA NI OWE NPhone 13/765-4792 Address 1704 West First St |
| 10 - | MUST COMPLETE) Approved state programme OIL AND Approved state programme OIL AND |
| HAZARDOUS MATERIALS MANAGEMENT SECTION Number 428 — 003897 744 P Street, Sacramento, CA 95814 | ند ت |
| TE MANIFEST $\mathcal{B}_{\mathcal{L}}$ | C |

TO GENERATOR

CALIFORNIA HAZARDOUS WASTE MANIFEST

State Department of Health Services

HAZARDOUS MATERIALS MANAGEMENT SECTION

744 P Street, Sacramento, CA 95814

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| Manifest Number |
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| TO GENERATOR | |
|---|--|
| Signature of Authorized Agent and Title Date Accepted | - 4 |
| | EPA NO. |
| HELD FOR DELIVERY ELSEWHERE, SPECIFY THE DESIGNATED TSD FACILITY: | S S |
| ☐ Treatment (Specify) _ | (20) INDICATE ANY SIGNIFICANT DISCREPANCIES BETWEEN MANIFEST AND SHIPMENT: |
| ☐ STATE FEE (If Any) ☐ Landfill ☐ Land Treatment | PHONE NO. |
| | (1) NAME |
| | TSD FACILITY (FACILITY-OPERATOR MUST COMPLETE) |
| NO. (213) 321-1392 (6) Signature of Authorized Agent and Title | CITY, STATE, ZIP Gardena, California 90249 |
| TIME DAME DAME DAME DAME | C A D 0 2 8 2 |
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| TE) | TRANSPORTER (HAULER MUST COMPLETE |
| 800-424-8802 (13) Signature of Authorized Agent and Title | IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802 |
| the applicable regulations of the Department of Transportation and EPA. | This is to certhe applicable regulations of the Department of |
| Gloves Goggles Respirator Other | (2) SI COME HANDLING INSTRUCTIONS: |
| Sludge Slurry Gas Other | PHYSICAL STATE: Solid |
| erial | (10) WASTE PROPERTIES: pH |
| % ppm. G | D |
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| · c | 9 A MILLO |
| 7) EX. HAZ. WASTE PERMIT NO | (r) VASTE CATEGORY |
| ☐ TANK TRUCK ☐ DUMP TRUCK | WASTE ! |
| | WASTE |
| City, State, Zip | State, Zip 1 101cy |
| e No Address Address | |
| | (2) Name to LIE () FOR |
| Designated TSD Facility (Authorized to operate under an | GENERATOR (Generator Must Complete) |
| State Department of Health Services HAZARDOUS MATERIALS MANAGEMENT SECTION (1) Manifest 0 1 5 - 002525 | See reverse side for Instructions. Please type or print clebry. Aress Hard. |

EPA NO. 22) NAME IF WASTE IS HELD FOR DELIVERY ELSEWHERE, SPECIFY THE DESIGNATED TSD FACILITY: SHIPMENT: (20) INDICATE ANY SIGNIFICANT DISCREPANCIES BETWEEN MANIFEST AND ON BNOH EPA NO. (17) NAME CITY, STATE, ZIP_ ADDMESS EP/ (14) NAME (e) TSD FACILITY TRANSPORTER (12) SPECIAL HANDLING INSTRUCTIONS: (10) WASTE PROPERTIES: pH. GENERATOR CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked, labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and EPA. (6) WASTE CATEGORY See reverse side for Lastructions. Please type or print clearly. Press Hald. 1 0 1981 Address 1165 EPA NO Name tha IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802 GENERATOR WASTE WASTE PHYSICAL STATE: ST COMPONENTS: U.S. DOT PROPER SHIPPING NAME 13419 Halldale Avenue PHONE NO. (213) 321-1392 C A D O 2 8 2 7 7 0 3 6 (HAULER MUST COMPLETE) (FACILITY-OPERATOR MUST COMPLETE) Gardena, California 90249 ASBURY OIL CO. (Generator Must Complete) □ Solid 1200 12024 19 STATE FEE (If Any) RECEIVED Liquid ☐ Gloves Toxic CONC. HAZARD CLASS □ Sludge (7) EX. HAZ. WASTE PERMIT NO CALIFORNIA HAZARDOUS WASTE MANIFEST ☐ Goggles ROUANTITY (If Measured) LJ && C ☐ Flammable FPA NO City, State, Zip Name Address ID NO. Designated TSD Facility (Authorized to operate under an State Department of Health Services HAZARDOUS MATERIALS MANAGEMENT SECTION. 744 P Street, Sacramento, CA 95814 Slurry approved state program or federal program) □ % □ ppm. □ % □ ppm. □ % □ ppm. □ % □ ppm. ☐ Respirator UNITS □ Corrosĭve/Irritant VOLUME ☐ Gas ☐ Other ☐ Other Signature of Authorized Agent and Title Non Hazardous Material Signature of Authorized Agent and Title Signature of Authorized Agent and Title UNITS □ Reactive (8) GENERATING PROCESS CONTAINERS NUMBER: TYPE: DRUMS 100. OTHER ☐ Sensitizer (4) Alternate TSD Facility EPA NO Name_ City, State, Zip_ Address (21) HANDLING OR DISPOSAL METHOD: □ BAGS (15) PICK-UP DATE (1) Manifest | 0 | 1 | 5 - 00 ☐ Recovery or Reuse ☐ Treatment (Specify) ☐ Injection Well ☐ Surface Impoundment ☐ Carcinogen/Mutagen ☐ CARTONS ☐ DUMP TRUCK CONC. ☐ Lánd Treatment RANGE ☐ Storage/Transfer Date Accepted Date Shipped Landfill □ % □ % □ ppm. □ % □ ppm. UNITS ☐ ppm.

TO GENERATOR

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|---|-------------|--|---|--|
| SERVICED AGORESS: ALLEN AIRCRAFT | | | ERECTIVEL. | ••• |
| 11643 VANOWEN ST. | | Service :_ | ROWLANT | |
| N. HOLLYWOOD, CA 916 | 09 | | | |
| Rowsens Custome | | Sther: Tech. <i>GL ENI</i> | Mach | ina ar <i>Do</i> |
| DOCLANT RECYCLED: | Product | | | SYN |
| QUALITY CONTROL STANDARDS | _STANDARD_ | _TANK_ DISTY | | TOTAL W/_NEW MIX_ |
| Gallons at job start | _xxxxxxxx | 500 | <u> </u> | |
| Gallons at completion | _xxxxxxxx_ | _xxxx <u>x</u> xxxx_ | 450 | 470 |
| THQ | 9.4 | 8.9 | 2.8 | 7.3 |
| Refract reading | 923 | 5.0 | 5.0 | 5.0 |
| Mix Ratio | 20:1 | 10:1 | 10:1 | 10:1 |
| Color | BLUE | MILK BLUĆ | RC4E. | BLUC |
| Odor | NONE | NONÉ | MOHE | NONT |
| TDS | _xxxxxxxx_ | e de la companya del companya de la companya del companya de la co | process consists of their charge applications | |
| Total Gals 453 Tram Processed 453 Skim | p Oil | Tramp Oil Processed | To Ga | p Off |
| iner Changes / | Run Temp 16 | 600 F | Conc.Added | 5 / 3 |
| BIOCIDE: Sold / G Ad | ded 3 Pt | Bio%-Final-M | Samp ix <u>0./0</u> % R | les <i>B/0277 (</i>) etained?(Y) N |
| ADDITIONS: AquaServm | | | | |
| TECHNICIAN'S COMMENTS PUHI | | | | |
| IFLUSH MACHINE WITH | 30 G WATE, | ENTO DIX | | |
| | | | | |
| Time In 835 | a. m/p. m. | Time Out | a. m | (p.m) |



| THE M | OBILE SEI | RVICE | perc 12-18 | 3-80 HUMBUR | ্ৰা পাইৰ সংগ্ৰহ ১০০ - ১০০ - ১৮০ |
|--|---------------------|--|---------------------------|------------------------------|------------------------------------|
| JERVICED ADDRESS: | | | CONTACT P | ERSC>*EL; | |
| Allen AIRCRAFT | | | Service :_ | Rolend | |
| 11643 VAN OWER |) | Pageory Royal Valor Adultum Agricus graves | Schedule:_ | | |
| N. Hollywood 9 | 1609 | | | | |
| Account C | ustomer .O. No _ | | Tech. Name <i>DARR</i> | Machi: | ne 7 |
| COOLANT RECYCLED: Manufacturer FAR | West | Product_ | 3500 | Туре | SUN |
| QUALITY CONTROL STAN | DARDS | _STANDARD_ | DIRTY _TANK_ | CLEAN/ TO RECYCLED | OTAĹ W./ _NEW MIX_ |
| Gallons at job sta | rt | _xxxxxxxx | 270+12 | | <u> </u> |
| Gallons at complet | ion | _xxxxxxxx | _xxxxxxxx | 260 | 500 |
| рH | | 9,4 | 8,9 | 8,6 | 9,0 |
| Refract reading | | | | 6.0 | |
| Mix Ratio | | 20:1 | | 8:1 | |
| Color | | Blue | Blue | Blue | , |
| Odor | | Scented | Light RANCID | scented | |
| Total Gals Processed 262 | Tramp C Skimmed | 0 | Tramp Oil Processed | Top Gale | off 240 |
| Liner Changes | Ru | ın Temp | <u> 20</u> F (| Conc. Added | 4 |
| BIOCIDE: Sold O | _G Addec | 1 <u>4</u> Pt | Bio%-Final-M: | Sample ix <u>/0</u> % Ret | es cained? (V)N |
| ADDITIONS: AquaServ_ | <u></u> | Sod.Om. | ml Blue Dy | /e | Scent 🕖 c |
| TECHNICIAN'S COMMENT | / 5_ <i>UMN</i> | ARRIVAL OU | moved 12 a | fean about | frait to |
| TECHNICIAN'S COMMENT LIRTY FANK Hosen | A down | dioty tan | K. Cust. u | ull adj. m | IX PATIO |
| Time In 7:00 | | Эр. м. | Time Out | 3:45 a.m/p | |
| | | Fe. # .// # | i. | \ | |
| Technician | Dimul Binnature | | V Jan | - Mannes comer Signatu | ino . |
| Fluid Recycling Service, | | | | | |

CUSTOMER



12-18 88 to 13

| Allen AIRCRAFT | | | one number Remode | PART | |
|---|------------------------|---|--------------------------|---------------------------|--|
| 11643 VANOWY | PN . | | | - ce were in /en million. | COMPANIES NO SECULO 19 III III III III III III III III III |
| N. Hollywood | 91609 | 4 | Schadwier | the second second second | e es son manufactura de las de la companya de la co |
| Account Number | Customer P.O. No | | Tech DARRICK | Mach Nomber | |
| COOLANT RECYCLEDE | West | Product | 3500 | Tuna | Syn' |
| QUALITY CONTROL ST | ANDARDS | _STANDARD_ | DIGTY C | LEAN TERMINETE | |
| Sallons at job s | Sant | _xxxxxxxx_ | 500+12 | φ | |
| Gallons at compl | etion | _xxxxxxxx 9,4 | _xxxxxxxx | 500 | |
| ρH | 1 | 9,4 | 8.9 | 8:60 | 9,2 |
| Refract reading | | 2,3 | 3427.0 | 6:0 | 6.0 |
| Mix Ratio | ** | 20:1 | 7:1 | 8:1 | 3:/ |
| Colar | | Blue | Blue | Blup | Blue |
| / no b Q. | | Scruted | RANGIO | Scented | Siented |
| Total Gals 502 Processed | Tramp (Skimmed | | Tramp Oil 2 Processed | Top ——— Gals | off Ø |
| Liner Changes / | / R: | in Temp | <u>'70</u> | c. Added | / |
| BIOCIDE: Sold | G Added | / Ft | Bio%-Final-Mix_ | Sample Ret | is ained O |
| ADDITIONS: AquaSer | vm1 | Sod.Om. | ml Blue Dye | Ø 07 5 | inant (2) |
| TECHNICIAN'S COMME | NTS UPON A | erival pump | med 12g from a | * APRIN TANK | to dirty |
| ADDITIONS: Aquaser TECHNICIAN'S COMME TANK: Hose down | clean tan will adju | UK. Ahout 1 | pt fluid spilled, | Fluid wa | s demond |
| Time In 7, | '00 O | | Time Out 3/ | | |
| Daniel S | faitmus | | | | |
| Technicia | n Signature | and the columns particle when shalled in the co-children results for a column particle page. | Lan- your | ar Signatu | L. B |

| 1 | | | SERVICE DATE <u>14 /</u> 0 | SERIA NUMBE | AL ER 1549 | |
|---|-----------------------------|---|---|------------------------------|---------------------|----|
| SERVICED A | THE MOBILE | SERVICE | CONTACT PE | ERSCNNEL: | | |
| ALLEN A | IKCKEET | Market and an analysis of the second analysis of the second and an analysis of the second analysis of the second and an analysis of the second and an analysis of the second and an analysis of the second and analysis of the second and an analysis | Service: | ROLANT | | |
| 11643 v | VANOWEN | The photograph is an | Schedule: | | | |
| | C(Ywood) | | Other: | | | |
| Account Number | Customer P.O. No | | Tech Name <u>G/6</u> | Machi | ne r Ø2 | |
| COCLANT RE Manufactur | er <u>faruest</u> | Product _ | 3500 | / Туре <u>_</u> | YN | |
| QUALITY CO | NTROL STANDARDS | STANDARD | DIRTY TANK | CLEAN/ RECYCLED | TOTAL W/ NEW MIX | |
| Gallons | at job start | XXXXXX | 600 | 40 | XXXXXX | |
| Gallons | at completion | <u>xxxxxx</u> | <u>xxxxxx</u> | 676 | <u>820</u> | |
| рН | | 9.7 | 9.4 | 93 | 2.4 | |
| Refract | ometer reading | 2.4 | 5.0 | 30 | 3. <i>O</i> | |
| Mix Rat | io | 20:1 | 9:1 | 9:1 | 16:1 | |
| Color | | HOUR | AGUT | AQUI | AOUL | , |
| Odor | Total Gals Processed 645 | <i>Nové</i> Tramp O Skimmed | <i>7</i> // | Tramp Oil G Processed | - | _G |
| | Liner Changes/ | | <u>60°</u> F | Conc Added | 4 | 6 |
| | Sold G A Aqua Serv | iocide dded <u>6</u> Sod. D m. Added | Bio % in Pt final mi Blue I — ml Added | ix <u>0,07</u> 5 R Dye Sc | ent | N. |
| rechnician | 'S COMMENTS: AF | DEFD 290 | G GATER | CFOR TOP | PINS DE | |
| *************************************** | | | | | | |
| ** | | | | | | |
| Time In | 0630 a.m | /p.m. Ti | me Out | a.s. | /p. m. | - |
| Te | chnician Signature | | Custon | mer Signature | | |

RECYCLING

DRDER

SERVICE

Fluid Recycling Service, Inc., 1717 Newport Circle, Santa Ana, California 92705-5196, (714) 754-7220

Fluid

| Necychil | 5 | SERVICE DATE | 3-87 SERIA | |
|--|------------------------------|---|---------------------|------------------|
| SERVICED ADDRESS MOBILE SERVI | ICE . | CONTACT PE | RSONNEL: | |
| ALAIU AIT CTAFT | _ | Service: | ROLAND | |
| 11639 VANOUEN | _ | Schedule: | | |
| BUTBINE CA | - | Other: | | |
| Account Customer Number P.O. No. | | Tech Name NEN | Machine Number | ne |
| COOLANT RECYCLED: Wr57 | Product | 3500 | Type | 54N |
| QUALITY CONTROL STANDARDS | STANDARD | DIRTY TANK | CLEAN/ RECYCLED | TOTAL W/ NEW MIX |
| Gallons at job start | <u>xxxxxx</u> | 40 475 | 435375 | <u>xxxxxx</u> |
| Gallons at completion | XXXXXX | <u>xxxxxx</u> | 500.500 | |
| рН | 2.4 | 10.910.9 | 10.7/0.8 | 11.1 1/./ |
| Refractometer reading | 2,3 | 7.0 7.0 | 7.07.0 | 2.3 2.3 |
| Mix Ratio | go: 1 | 7 <u>:1 7:1</u> | 7:1 7:1 | 20:120: |
| Color | SIEEN | B.L. briev | Great Green | Green Gree |
| Odor Some Some Some Some Some Some Some Some | Tramp Skimme | | Mormac Tramp Oil | Norma MOTING |
| Liner | Run | / | G Processed Conc | ~ 1 |
| Changes / Biocide Bio Sold / G Add | Temp _ ocide & led _ & | / <u>40./50</u> F Bio % in _Pt, final mi: | AddedS | amples Y N |
| Aqua Serv | od. Om. Added <u>30</u> | Blue Dy | | ent Color |
| rechnician's comments: Pum | PED BO | TH ACKEAN | TANKS IN | To DITTY |
| TANK 50 GALS, EACH. | ADDED | WATER | TO AD | TUST , |
| MIX RATIO | | | 1 | |
| | | | | |
| Time In 8:00 a.m./p |).m., T | ime Out <u>////</u>) | a.m., | p.m. |
| A. A.M. | · / | Et White | - 15 | 7 3.39 |
| Technician Signature | • | Custome | er Signature | t to make |
| · · · · · · · · · · · · · · · · · · · | | ~ | | |

SERVICE

COOL NT RECYCLING SERVICE ORDER

| | DATE 4-70-87 NUMBER 1284 |
|--|---|
| SERVICED ADDRESS: MOBILE SERVICE | CONTACT PERSONNEL: |
| ALLen Aircraft | Service: RAY Cours |
| 11643 VANOWER ST | Schedule: |
| N. Hollywood. | Other: |
| Account Customer Number P.O. No. | Tech Machine Name Mouty Number 3 |
| COOLANT RECYCLED: Manufacturer HANCENS Froduct | 4 |
| QUALITY CONTROL STANDARDS STANDARD | CHEAT CHEAT |
| Gallons at job start <u>XXXXXX</u> | 500 1500 XXXXXXX |
| Gallons at completion XXXXXX | <u>xxxxxx</u> 500 |
| рн <u>9.1</u> | 7.8 7.8 |
| Refractometer reading 5.0 | 4.6 5.0 |
| Mix Ratio | 23:/ 20:/ |
| color white | white white |
| Odor Total Gals 78 Tramp Recycled 5/8 Skimm | |
| Liner Run Changes Temp | Conc |
| Biocide / Biocide | Bio % in Samples Pt final mix /5/0 Retained (Y) N |
| Aqua Serv Sod. Om. | Blue Dye Scent ml Added oz Added oz |
| TECHNICIAN'S COMMENTS: Pum sed | 300 gale into Dity Took |
| That was in Retainin | g TANK of CLEAN TANK |
| | |
| | |
| Time Ina.m/p.m. | Time Out 10 a.m./p.m. |
| Technician Signature | Kalon Whetsus |
| yayındare | Customér Signature |

| COOI | NT | R | E | C. | Y | C | L | I | N | G |
|------|-----|---|---|----|---|---|---|---|---|---|
| SER | VIC | E | | 0 | R | D | E | R | | |

| | 3 | DATE 4-/ | 7-89 NUMBE | TR 1285 |
|--|----------------------|-----------------------|-----------------------|---|
| SERVICED ADDRESS: MOBILE SERV | VICE | CONTACT PE | • | the manufacture of the second |
| ALLen AIRCOAFT | | Service: | Roly To | cloner |
| 116 43 NANOWOUST | | Schedule: | | |
| No Hallywood | | Other: | | |
| Account Customer Number P.O. No | | Tech Name <u>M</u> | Machi Numbe | ine er_3(1076 |
| COOLANT RECYCLED: Manufacturer Farwest | _ Product _ | 3500 | Туре | 54N |
| QUALITY CONTROL STANDARDS | STANDARD | DIRTY TANK | CLEAN/ RECYCLED | TOTAL W/ NEW MIX |
| Gallons at job start | <u>xxxxxx</u> | 500 450 | 00 | XXXXXX |
| Gallons at completion | <u>xxxxxx</u> | xxxxxx | 375375 | 500 500 |
| Н | 9.4 | 8.68.6 | 8.68.5 | 8:98.9 |
| Refractometer reading | 2.1 | 6.06.0 | 6.06.0 | 2.62-6 |
| Mix Ratio | 20:1 | 8:18:1 | 8:18:1 | 18:1/8:1 |
| Color | V is | grangieen | 1912en 9100s | may gree |
| Odor Total Gals Recycled 753 Liner | None Tramp C Skimmed | i | Tramp Oil G Processed | Non non |
| Changes ${\cal V}$ | Temp _/ ocide | 160 -17°F | Conc Added | _ _ |
| SoldG Add | ded /2 Sod. Om. | Pt final mix Blue Dy | ye 🖳 sc | amples etained Y N |
| rechnician's comments: | AddedG | ml Added | allons | Ided <u>G</u> oz |
| WAter To A | @11/5 / | + Mix | Restio | 70 |
| eAch TA | w K. | | | |
| | | | | |
| Time In(a.m)/1 | p.m. Ti | Ime Out | a.m. | /p.m. |
| Technician Signature | `- | (. (.) | er Signature | · · · · · · · · · · · · · · · · · · · |

| • | | ' 5 | SERVICE | SERIA | |
|-------------------|------------------------|----------------|--------------------------|--------------------|---------------------|
| | THE MOBILE SER | RVICE | DATE | EB / NUMBER | R <u>1124</u> |
| SERVICED A | | | CONTACT PE | RSONNEL: | |
| ALLEN | AIRCRAST | | Service: | Roul sitt : RA | 4 TERRANES |
| 11693 VI | ANOUEN ST. | - | Schedule: | · | |
| ALDRICH HOL | (1 VILLOST) (A 7/609 | } | Other: | | |
| Account Number | Customer P.O. No | | Tech Name <u>GLEN</u> | Machin √Number | |
| COOLANT RE | CYCLED: | | | | / |
| Manufactur | er <u>HANGSTERFERS</u> | Product _ | <u> </u> | | |
| QUALITY CO | NTROL STANDARDS | STANDARD | DIRTY TANK | CLEAN/ RECYCLED | TOTAL W/ NEW MIX |
| Gallons | at job start | <u>xxxxxx</u> | CONTAINTANK +440 | ф_ | <u>xxxxxx</u> |
| Gallons | at completion | <u>xxxxxx</u> | <u>xxxxxx</u> | 362 | 440 |
| рH | | 9.1 | 79 | 8.0 | 69.2 |
| Refract | ometer reading | 50. | 3.3 | 33 | 66 |
| Mix Rat | io | 20:/ | 34:/ | 34:1 | 15:1 |
| Color | | ROYA Black | WAITE | BROWN WKITE | AGUA |
| Odor | Total Gals | Tramp C | | Tramp Oil | Scene |
| | Recycled 374 | Skimmed Run | · | Processed | |
| | Changes/ | Temp | 150° F | Conc Added | 27 |
| | Biocide / Bi | ocide , | Bio % in | | mples |
| | SoldG Ad | ded | Pt final mix | c <u>//./</u> / Re | tained 🕢 |
| | udaa pera | BOU. UM. | # 111 P 117 | 7 0 970 | n+ |
| | Added ml | Added | mi Added _ | oz Add | led o |
| TECHNICIAN | 'S COMMENTS: CIF | NTANK () | AS HOSEDE | Durk! AND F | PUMPFED |
| | STY TANK PUMPIN | | | | |
| | | | | VX TY THOIR | TIDDED |
| 30 (4 WAS | TER TO PREMIX CON | CHITRATE | | | |
| | | | | | |
| , | -800 am/ | p.m. Ti | me Out <u>13</u> | a.m.4 | p.m. |
| EP 6 | | | | | |
| Tec | chnician Signature | | Custome | r Signature | |

SERVICE

ORDER

Fluid Recycling Service, Inc., 1717 Newport Circle, Santa Ana, California 92705-5196, (714) 754-7220 CUSTOMER

Customer Signature



| I. | WCC yCIII | ug | SERVICE | SERIA | AL. |
|-------------------|---------------------|---------------------------------------|----------------------|--------------------|---------------------|
| A | THE MOBILE SI | FRVICE | DATE ZOF | | |
| SERVICED A | DDRESS: | LIVICE | CONTACT PE | RSONNEL: | |
| ALLEN A | IRCKAFT | | Service: | ROLAND | |
| 11643 V | ANDWEN ST. | | Schedule: | 4. | |
| NORTH HOL | 17WOOD, CA 91601 | 2 | Other: | | |
| Account Number | Customer P.O. No | | Tech Name G(FN | \sim Machi | ne r_φZ_ |
| COOLANT RE | | | | | |
| Manufactur | er <u>FARWEST</u> | Product _ | 3 <i>50</i> 0 | Type | - YN |
| QUALITY CO | NTROL STANDARDS | STANDARD | DIRTY <u>TANK</u> | CLEAN/ RECYCLED | TOTAL W/ NEW MIX |
| Gallons | at job start | xxxxxx | TANK A+B | ϕ | xxxxxx |
| Gallons | at completion | <u>xxxxxx</u> | <u>xxxxxx</u> | 738 | 270 |
| Hq | 44 | 9.4 | 9.1 | 9.0 | 9.4 |
| Refract | ometer reading | 2.2 | 7.0 | 7.0 | 2.5 |
| Mix Rat: | io | 20:1 | 7:1 | 7:1 | 18:1 |
| Color | | RLUE | LT BLUE | BLUE | BLUE |
| Odor | | SCENT | BANKED | NONE | SCENT |
| | Total Gals 747 | Tramp Oi | | Tramp Oil | SCFUT |
| | Recycled +47 | Skimmed | <u></u> | G Processed | *** |
| | Changes / | Run | , 1 | Conc | ··· |
| | ni - i i - | Temp / | | Added | \mathcal{D} |
| | Sold 7 C A | rocide | Bio % in | , St | α |
| | SoldG A | aded | t final mix | R = 0.70 Re | etained 😢 |
| | Aqua Serv Addedml | SOQ. OM. | Blue Dy | re Sce | ent 2 |
| | MI mi | . Added | ml Added _ | oz Ado | ded |
| ECHNICIANI | | · · · · · · · · · · · · · · · · · · · | | | |
| TOIMICIAN | B COMMENTS: AT | DE+)1#06 | TO BRING | TO 18:1 AT | THERE |
| REQUEST. | - | | | | ••• |
| are spar str | | | | | |
| | | | | | |
| | | | | | |
| | | | | | •• |
| . m.: | 4 - 1 | | | | |
| Time In | a.m. | p.m. Tim | ne Out | <u> </u> | (p.m.) |
| 1 M | 71/ | | | . / | |

RECYCLING

ORDER

SERVICE

Customer Signature

Technician Signature

| | 0 | SERVICE | SERIA | | | | |
|---------------------------|--------------------------------|--|------------------------------------|-------------------------------|----------------|--|--|
| THE MOBILE SEI | RVICE | DATE 12/1 | 1/88 NUMBE | ER <u>916</u> | | | |
| SERVICED ADDRESS: | | CONTACT PE | RSONNEL: | | | | |
| ALLAN AIRCRAFT. SUPP | Cy | Service: | | | | | |
| 11643 VANOWEN SER. | | Schedule: | | | | | |
| North Hollywoon CA | | Other: | | | _ | | |
| Account Customer | | | | | - | | |
| Number P.O. No. | | Tech | <u> Machi</u> Numbe | ne #/ | | | |
| | | $\underline{\hspace{1cm}}$ Name $\underline{\hspace{1cm}}$ | <i>//)À∧</i> Numbe | r_#6 | | | |
| COOLANT RECYCLED: | | ′ / | , | | | | |
| Manufacturer FAR WEST | Product | 7500 | Туре <u>S</u> | LIN. | | | |
| QUALITY CONTROL STANDARDS | STANDARD | DIRTY TANK | CLEAN/ RECYCLED | TOTAL W/ NEW MIX | - | | |
| 0-11 | | | - ALGO T CHAD | MEW MIX | | | |
| Gallons at job start | XXXXXX | 500 | | XXXXXX | | | |
| Gallons at completion | XXXXXX | <u>xxxxxx</u> | 450 | 300 | | | |
| pH ? | 9.4 | | 9,\$ | 9.5 | | | |
| Refractometer reading | 2,4 | 3.2 | 2,4 | 9 | | | |
| Mix Ratio | 2011 | 14:1 | 20:1 | <u> </u> | | | |
| Color | BLN | LEBRN. | CIN. | Francis () | | | |
| | Tramp (Skimmed Run Temp Ocide | 1 //O F Bio % in | Tramp Oil G Processed Conc Added S | $\frac{3+476}{\text{amples}}$ | D | | |
| III III | Added O | mr Added . | oz Ad | ded <u>V</u> oz | | | |
| ECHNICIAN'S COMMENTS: | N ARRIV | IBL Tech | DUMP. 15 | 064. | | | |
| OF DIKty CUDGANT INTO | the o | then dia | Ly TANK. | tech pun | · _* | | |
| 25 GA. OF OUL CONTANT | Erum C | iens tan | K /plu | Dinty | | | |
| TONK. And washout in | | | | , | | | |
| Time In 6:30 a.m./ | • | me Out 100 | | /p.m. | | | |
| Mamon D. Freto | | Time T | | | | | |
| Technician Signature | 1 | Customer Signature | | | | | |

SERVICE

ORDER

Fluid Recycling Service, Inc., 1717 Newport Circle, Santa Ana, California 92705-5196, (714) 754-7220 CUSTOMER



SUMP

SERIAL NUMBER 6255

ORDER

SERVICE

DATE

| SERVICED ADDRESS: | | CONTACT | r personne | L: | |
|----------------------|---|---|-----------------|-------------------------|----------|
| Allen Sucrat | 7 | Service | : | · | |
| 11643 Vanowan | , </td <td>Schedu]</td> <td></td> <td></td> <td></td> | Schedu] | | | |
| 1. Hollywood | Ca 91609 | Other: | | | |
| Account Number | Customer P.O. No | Tech Name | Loof Tona | Machine Number_ | |
| COOLANT IN USE: | | | | | |
| Manufacturer | Prod | uct | т | 'ype | |
| SPECIAL INSTRUCTION: | | | | | |
| e e | | | | | |
| | | | | | |
| | | STANDARD | DIRTY | CLEAN | r |
| Gallons moved | | xxxxxx | | CHEAN | |
| Gallons at comp | lotion | AAAAAA | | | _ |
| ¥ . | | | | | |
| Refractometer re | eading | | | | _ |
| Mix ratio | | | | | |
| | Number of sumps changed/cleaned | | Tramp skimme | oil d <u>140 ans</u> | - - G |
| rechnician's comment | rs: Tile K | binoned 1 | | / | |
| from cle | | 1-1 | Jung | J of | |
| The Marie Con | an cooking | Canle | **** | | · |
| | | | | | |
| | | , | | | **** |
| | | | | | |
| Time In ///3 | d (a.m)/p.m. | Time Out $\angle\!$ | <u>('30</u> | _(a.m)/p.m. | |
| 1 4 | | P. | - 20 (1 R | | |
| /Year | Signature | AMADO | tomer Sia | nature | |

SERVICE ORDER

GAL! BRUM WE USE RECYCLING

SERVICE SERIAL THE MOBILE SERVICE DATE 10-27-88 NUMBER 710 SERVICED ADDRESS: CONTACT PERSONNEL: ALLEN AZRCRAFT Service: ROWLAND 11643 VANOWEN ST Schedule: N. HOLLYWOOD, CA 91609 Other: Account Customer Tech Machine Number _ P.O. No.__ Name RICH HAMEL Number 2 COOLANT RECYCLED: Manufacturer FAR WEST Product 3500 Type Syn DIRTY CLEAN/ QUALITY CONTROL STANDARDS TOTAL W/ STANDARD TANK RECYCLED NEW MIX Gallons at job start × 700 XXXXXX XXXXXX Gallons at completion XXXXXX XXXXXX 650 ¥950 Ha 9.4 8.4 8.3 9.0 Refractometer reading 2.4 2.8 2.6 Mix Ratio 20:1 16:1 19:1 Color GREEN GREEN GREEN LIGHT Odor NONE Total Gals Tramp Oil Tramp Oil Recycled Skimmed Processed Liner Run Conc Changes Temp /60-/70 F Added Biocide Biocide Bio % in Sold final mix _15% Retained Y Added TECHNICIAN'S COMMENTS: * 2 DERTY TANKS AND 2 CLEAN TANKS PLACE IN TRASH BIN AS PER CUSTOMERS ADDED GALS WATER TO SECOND 300 CONCENTRATE NEEDED Time In 7:25 (a.m./pam. Time Out Technician Signature Customer Signature

| COOLANT | RE | CYCLING |
|---------|----|---------|
| SERVIC | E | ORDER |

| THE MOBILE SER | VICE | SERVICE 9/ | 7/8 SERIA | |
|---|--------------------------|-----------------------|--------------------------------|------------------------|
| SERVICED ADDRESS: | | CONTACT PE | SONNEL: | |
| Allen Airceaft | | Service: | | |
| peat 1 of 2 | | Schedule: | | |
| · · | | Other: | | |
| Account Customer Number P.O. No. | Part | Tech Name/ | Machi Numbe | ne r_5/08 |
| COOLANT RECYCLED: Manufacturer Hung Stephen | <u>></u> Product _ | 5-500 | Туре | Sol GIL |
| QUALITY CONTROL STANDARDS | STANDARD | DIRTY TANK | CLEAN/ RECYCLED | TOTAL W/ NEW MIX |
| Gallons at job start | <u>xxxxxx</u> | <u> 500</u> | | xxxxxx |
| Gallons at completion | <u>xxxxxx</u> | XXXXXX | 475 | 475 |
| рН | 9.1 | 8,1 | 8.1 | 8.9 |
| Refractometer reading | 5.0 | 5.0 | 5.0 | 5.0 |
| Mix Ratio | 10.1 | 20:1 | 20:1 | 20:1 |
| Color | WHT | Grey | WHI | WHT |
| Odor Total Gals Recycled 502 Liner Changes | Tramp O Skimmed Run Temp | ا رسیم | Tramp Oil Processed Conc | 27 G |
| | | Bio % in Pt final mix | Added S: /57_ R: | amples etained Y (N |
| TECHNICIAN'S COMMENTS: | | | | |
| | | | | |
| Time In Ser a m. / | /p.m. Ti | me Out | a.m. | Ø.m.) |
| . 17 | | | | |

| COOLANT | RECYCLING |
|---------|-----------|
| SERVIC | E ORDER |

| THE MOBILE SERV | ICE . | SERVICE 0/ | 7/22 SERIA | AL ER579 |
|---|--------------------------------|----------------------|---|---------------------|
| SERVICED ADDRESS: | | CONTACT PE | / | |
| Allen Diacraft | | Service: | | |
| part 2 of 7 1 | _ | Schedule: | | |
| \ | | Other: | | |
| Account Customer Number P.O. No | | Tech Name K | Machi Numbe | ine er_08 |
| COOLANT RECYCLED: FAILWEST | _ Product _ | 3500 | Туре | Syn. |
| QUALITY CONTROL STANDARDS | STANDARD | DIRTY <u>TANK</u> | CLEAN/ RECYCLED | TOTAL W/ NEW MIX |
| Gallons at job start | <u>xxxxxx</u> | 435 | _0_ | xxxxx |
| Gallons at completion | <u>xxxxxx</u> | <u>xxxxxx</u> | 400 | 400 |
| рH | 9.4 | 7.9 | <u>7.8</u> | 8.7 |
| Refractometer reading | 2.2 | 2.4 | 2.2 | 2.2 |
| Mix Ratio | 70:1 | 18:1 | 20:1 | 20:1 |
| Color | Blue | Blue | | Blue |
| Odor Total Gals Recycled 4)7 Liner Changes Biocide Bio Sold G Add | Tramp C Skimmed Run Temp Ocide | 180 F | Tramp Oil Frocessed Conc Added S X 157 R | |
| TECHNICIAN'S COMMENTS: | | | | |
| Time Ina.m./r |). m Ti | me Out 2 | a.m. | |

SERVICE ORDER

SERIAL

SERVICE

| THE MOBILE SERV | /ICE | DATE <u>8-31</u> | - ₹\$ NUMBE | R <u>613</u> |
|---|--------------------------|-----------------------|---------------------------------------|--|
| SERVICED ADDRESS: | | CONTACT PERS | SONNEL: | |
| Allan Aircraft | | Service: | pland. | |
| 11643 Vandwen ST. | | Schedule: | | |
| N. Hollywood, Ca 916 | 09 | Other: | | |
| Account Customer Number P.O. No | | Tech Pete | Machin Number | ne r |
| COOLANT RECYCLED: Manufacturer Far Wes+ | _ Product _ | | Type S | |
| QUALITY CONTROL STANDARDS | STANDARD | DIRTY TANK | CLEAN/ RECYCLED | / TOTAL W/ NEW MIX |
| Gallons at job start | <u>XXXXXX</u> | 490 | <u>&</u> | <u>xxxxxx</u> |
| Gallons at completion | <u>xxxxxx</u> | <u>xxxxxx</u> | 450 | 500 |
| рH | 9.4 | 6.4 | 6.6 | <u> 5. 7</u> |
| Refractometer reading | 1.6 | 0.8 | 0.4 | 3.0 |
| Mix Ratio | 20:1 | 35:1 Greenish | 35:1 Greenish | |
| Color | Green | Blue Heavy | Blue | ** ** ** ** ** ** ** ** ** ** ** ** ** |
| Odor Total Calc | Scented Trans | rancidity | None | 5000 |
| Total Gals Recycled | Tramp O Skimmed | | Tramp Oil Processed | <i>C</i> 3 |
| Liner | Run | | Conc | |
| | | 70 F | | |
| Biocide Bi SoldG Ad | ocide ded <u>28 /</u> | Bio % in Pt final mix | S R | amples etained Y N |
| TECHNICIAN'S COMMENTS: Upon | a111141 | skimed oi | lout of | dirty |
| Tank and jumped old | coolant | out of | clean tan | Kinto |
| dirty tank. Also be h | | | | |
| clean tank minde | 1.75 9, | · Su. | · · · · · · · · · · · · · · · · · · · | |
| Clean tank Hangarat 4:00 a.m./ | p.m. Ti | me Out | a.m. | /p.m. |
| Lotan com | | | A | |
| Technician Signature | | Customer | r Signature | |

Customer Signature



SERVICE ORDER

| | THE MOBILE SERVICE | J CE | SERVICE DATE | 19/88 NUMBE | L R <u>9502</u> | |
|---------------------------------------|---------------------|-------------|---------------|--------------------------|--------------------|-------------|
| ERVICED | ADDRESS: | | CONTACT P | / ERSONNEL: | | |
| Allen | Aircraft | | Service: | | | |
| · Nos | eth Hollywood | | Schedule: | | | |
| | | | Other: _ | | | |
| ccount umber | Customer P.O. No | | Tech Name/ | LUES Machi | ne r <u>08</u> | |
| ERVICES | PERFORMED: Installe | | | | anks | |
| | | | | | | |
| | | | | | | |
| t | | | - Ag | | | |
| | | | | | | |
| , | | | | | | |
| ; | | | | | | |
| | | | | | W-100 | |
| | | | | | 20. | ٠ ٠. |
| | Gallons | Fluids | | Fluids | | |
| | Recycled Liner | Skimmed Run | | _G Processed Additive | - | |
| | Changes | Temp | F | Added | | |
| 'ECHNICIA | in's comments: DR& | en | 2 More | Far - | vest" | |
| Synth | etic labels | to V | le in | stalled | at | |
| <u>a</u> ' | later date | | | | | |
| · · · · · · · · · · · · · · · · · · · | | : | | | •, | |
| Time I | in(a.m)/1 | o.m. | Time Out _ | 1120 | a.m | |
| | 11 D CID | | · · | | | |
| 1 | echnician Signature | • | Custor | mer Signature | . # | |

| | SERVICE/ // O SERIAL |
|--|---|
| THE MOBILE SERVICE | DATE 8/11/88 NUMBER 542 |
| SERVICED ADDRESS: TANK(B) | CONTACT PERSONNEL: |
| Allan Airora A | Service: |
| 11643 Manowed St. | Schedule: |
| A. Holywood CA. | Other: |
| Account Customer Number P.O. No. | Tech Machine Number |
| COOLANT RECYCLED: Manufacturer Handler Product | |
| QUALITY CONTROL STANDARDS STANDARD | DIRTY CLEAN/ TOTAL W/ TANK RECYCLED NEW MIX |
| Gallons at job start <u>XXXXXX</u> | SOO XXXXXXX |
| Gallons at completion <u>xxxxxx</u> | XXXXX |
| pH 9,1 | 7.8 2.9 |
| Refractometer reading | 14 1-4 |
| Mix Ratio | 71:1 |
| color white | Blue Blue The |
| odor Sciented | NONE NONE |
| Total Gals Recycled Skimmed | |
| Liner Run | Conc |
| Changes Temp Biocide, Biocide, | Bio % in Samples |
| Sold G Added Vot S | Pt final mix Ketained Y N |
| FECHNICIAN'S COMMENTS: | . |
| denimore tiple of | |
| at a most it that | and Aller Man |
| | |
| Time In 10:20 a.m./p.m. Time | me Outa.m./p.m. |
| - Comment of the comm | |
| Technician Signature | Customer Signature |

ORDER

Fluid Recycling Service, Inc., 1717 Newport Circle, Santa Ana, California 92705-5196, (714) 754-7220 CUSTOMER

| THE MOBILE SERVICE | DATE SERIAL NUMBER 541 |
|---|---|
| SERVICED ADDRESS: TANK(+) | CONTACT PERSONNEL: |
| Allan AiRaraft | Service: |
| 11643 Vanowen St | Schedule: |
| N. Hollywood & CA | Other: |
| Account Customer Number P.O. No. | TechNameNumber |
| COOLANT RECYCLED: Manufacturer #CAISTerforS Product _ | |
| QUALITY CONTROL STANDARDS STANDARD | DIRTY CLEAN/ TOTAL W/ TANK RECYCLED NEW MIX |
| Gallons at job start <u>XXXXXX</u> | 455 Q XXXXXX |
| Gallons at completion <u>xxxxxx</u> | xxxxxx 450 500 |
| ph 9.1 | 8.0 8.1. 9.1 |
| Refractometer reading 50 | 1.6 1.6 5.6 |
| Mix Ratio | - 63:1 63:1 18:1 |
| color <u>white</u> | 4 Blue Blue Blue. |
| Odor Total Gals Tramp O | NONE NONE Souted |
| Recycled Skimmed | |
| Liner Run Changes Temp | Conc Added 5 + 356 w/686 |
| Biocide Biocide Sold G Added | Bio % in / Samples |
| | re rindi mix ho in we kerdined A W |
| rechnician's comments: Tech Blew | 100 AMD FUER. DOLLN TIME |
| nomin | |
| | |
| | |
| Time In 5:00 (a.m./p.m. Ti | me Out 10.30 (a.m./p.m. |
| Mamas Matthe | me out 10.0 (a.m./p.m. |
| Technician Signature | Customer Signature |

ORDER

SERVICE ORDER

SERVICE

| THE MOBILE SE | RVICE | SERVICE DATE | Z/N SERIAL NUMBER | |
|---|---|----------------------|--------------------|-------------------------|
| SERVICED ADDRESS: | | CONTACT PER | SONNEL: | |
| Allen Araceaft | · | Service: | | |
| 11643 Varowen St | | Schedule: | | |
| N Hollywood Ca | 91609 | Other: | | |
| Account Customer Number P.O. No. | | Tech Name | Machin Number | |
| COOLANT RECYCLED: Manufacturer | Product _ | 3500 | Туре | Semi |
| QUALITY CONTROL STANDARDS | STANDARD | DIRTY TANK | CLEAN/ RECYCLED | TOTAL W/ NEW MIX |
| Gallons at job start | <u>xxxxxx</u> | 950 | | xxxxxx |
| Gallons at completion | xxxxxx | <u>xxxxxx</u> | 900 | 950 |
| pH + | 9.4 | BB63 | 6.3 | 8.8 |
| Refractometer reading | 7.2 | 2.1.0 | 1.0 | 2.4 |
| Mix Ratio | 20:1 | 40:1 | 40:1 | 18:1 |
| Color | 6nn | Blue | Blue | Blue |
| Odor | | Rotten <u>Faa</u> | | |
| Gallons Recycled Liner Changes Biocide Sold C | Tramp O: Skimmed Run Temp Biocide Added | il <u> </u> | Conc | 2Z G mples tained (Y) N |
| TECHNICIAN'S COMMENTS: A | Sodium | madine | treatment | was |
| necessary to treat | • 1 A | fungus | growth | in diety |
| Time In | /n n | | 3× 3 m/ | <u> </u> |
| Technician Signature | B = ================================== | Moiste | a.m./ | p. m. |

Custómer Signature

| COOLANT | RE | CY | C | L | ING |
|---------|----|----|---|------|-----|
| SERVIC | E | OR | D | F: T | R |

| THE MOBILE SE | ERVICE | DATE 4/ | URB NUMBE | |
|---|---------------|----------------------|--------------------------------------|---------------------|
| SERVICED ADDRESS: | | CONTACT PI | ERSONNEL: | |
| Allan AcaraPt | - | Service: | | |
| 11643 Van Over St | <u> </u> | Schedule: | | |
| N. Hallywood, CA. 916 | 609 | Other: _ | | |
| Account Customer P.O. No. | | | Machi Machi Numbe | ne er 5/-06 |
| COOLANT RECYCLED: | | | Stirbis | |
| Manufacturer For Wost | Product _ | <u>3500</u> dirty | Type V | |
| QUALITY CONTROL STANDARDS | STANDARD | TANK | CLEAN/ RECYCLED | TOTAL W/ NEW MIX |
| Gallons at job start | <u>xxxxxx</u> | 450 | <u> </u> | XXXXXX |
| Gallons at completion | <u>xxxxxx</u> | <u>xxxxxx</u> | 390 | <u> </u> |
| рН | 9.1 | 8.3 | 8.1 | 2,17 |
| Refractometer reading | <u>a.a</u> | 2.2 | 1.6 | |
| Mix Ratio | 20:1 | 20:1 | 27:1 | *** |
| Color | Green | 4. Blue | Blue | |
| Odor | Scented | Rancia | Sonted. | |
| Gallons Recycled 4/7 Liner Changes Biocide Sold 6 | Diamin. | 70 F | Tramp Oil G Processed Conc Added S x | <u>ට්'</u> |
| rechnician's comments: | | | | |
| from Ment Earl | into divi | V to IK L | 364 30 4 | |
| # 1 of the many of the many | VACT IN T | <u> </u> | | |
| Time In 7:00 (a.m. |)/p.m. Ti | me Out <u>(0.3</u> | a.m. | /p.m. |
| Technician Signatur | e | Custom | er Signature | |

| THE MOBILE SERV | /ICE | SERVICE DATE 4/// | SERIA NUMBE | | |
|--|------------------------------------|----------------------|-----------------------------|---|---------------|
| SERVICED ADDRESS: | | CONTACT PER | RSONNEL: | | |
| Allan Aircroft | | Service: | | | |
| 11643 Vay Ower St. | | Schedule: | | | |
| N. Hallymond, CA. 9160 | 19 | Other: | | | |
| Account Customer Number P.O. No | | Tech Name | Machi <u>محارد</u> Numbe | $ \begin{array}{c} \text{ne} \\ \text{or} \\ \sqrt{5} \\ \sqrt{6} \end{array} $ | |
| COOLANT RECYCLED: Manufacturer For the St | Product _ | 350A DIRTY | 2137:14 | Sin V | |
| QUALITY CONTROL STANDARDS | STANDARD | TANK | RECYCLED | NEW MIX | - |
| Gallons at job start | <u>XXXXXX</u> | 500 | <u>Q</u> | <u>XXXXXX</u> | |
| Gallons at completion | <u>xxxxxx</u> | <u>xxxxxx</u> | 450 | 460 | |
| pH | 9.1 | 8.5 | 8.4 | 87 | |
| Refractometer reading | 22 | <u>a.4</u> | 1.6 | <u>3.2</u> | |
| Mix Ratio | 20:1 | 19:1 | 27:1 | 14:1 | |
| Color | Green | Lt Hive | Rive | 200 | |
| Odor | Sconted | Remad | Scented | Signed | |
| Gallons Recycled 485 Liner Changes Biocide Sold GA | Tramp O Skimmed Run Temp // Locide | 70 F | | | G G (N) |
| rechnician's comments: Note | - 4055 of | power shu | ot down s | for hour | |
| | | | 1 * / | ************************************** | |
| Time In 10:30 (a.m.) Technician Signature | p.m. Ti | me Out 2:3 | a.m. | (p.m) | |

RECYCLING

ORDER

SERVICE



OIL PURIFICATION SERVICE ORDER

NUMBER A

| | TODICE SEIVE | · L | | | |
|-----------------------|-----------------------|------------|---------------------|--------------------------|-------------------|
| SERVICED ADDRESS | 5: | | CONTACT | PERSONNEL: | |
| Allani Ainer | rcft_ | | SERVICE: | | |
| 11643 Vani Ou | Jell St: | | SCHEDULE | : | |
| N. Hallyman | | | OTHER: | | |
| 3 | Customer | Tech | nician Name Pels | Macl Macl | nine per_51-06 |
| OIL PROCESSED: | A | | Dan S | ptir prz | |
| Manufacturer | | Product | oil | Туре | |
| Specific Gravity | - | | | ₹ | i |
| SPECIAL INSTRUCT | IONS: | | | | |
| · : | And the second second | | | | · |
| | | | | | |
| Y . | | | | | |
| | | <i>]</i> | | | |
| Gallons Recycled | Wate Decan | r ted 8 | Ž. | Water from Processing | 250 |
| Solids Removed /2 | \ | | Additiv | <u>e</u> | antity & |
| TECHNICIAN'S COM | MENTS: Had | to shy | + dun | n due + | 0 |
| Plant clos | sing will | FINISH | 106 | on 4/12 | -158 |
| | | gallen . | | | . , |
| и. | <u> </u> | | | , market and the second | |
| Time In <u>A'3</u> | a.m. Time Out | 1:45 | m. m. | | % \$ 27 2.77 |
| Peter 1 | magli- | | | Aus Tes | |
| Technici | af Signature | | Cust | omer Signatur | e |



OL PURIFICATION SERVICE ORDER

SERVICE SERIAL NUMBER 8023

| SERVICED ADDRESS: | CONTACT PERSONNEL: |
|-----------------------------------|---------------------------------------|
| Allan Arcacoft Supply | SERVICE: |
| 11643 Van Dwen St | SCHEDULE: |
| N Hollywood, CA 91609 | OTHER: |
| Account Customer Number P.O. No. | |
| OIL PROCESSED: | DAU Stirois |
| Manufacturer | Product Hyaravia oil Type |
| Specific Gravity | |
| SPECIAL INSTRUCTIONS: | |
| | |
| | |
| | |
| | • |
| Gallons Recycled <u>400</u> De | Water from canted O Processing |
| Solids Ru Removed 2 cups Tem | Additive Quantity & |
| TECHNICIAN'S COMMENTS: | nor Spill wside trailer Blew fore Sho |
| dans + me. | |
| | |
| | |
| Time In 7:30 p.m. Out | a.m. p.m. |
| Pater Al Mand | |
| Technician Signatur | e Customer Signature |



SERVICE

SERVICE ORDER

SERIAL

| THE MOBILE SERVICE | NOMBER |
|----------------------------------|---|
| SERVICED ADDRESS: | CONTACT PERSONNEL: |
| Allan Aircraft Supply Co. | SERVICE: |
| 11643 Vanuwer ST | SCHEDULE: |
| N. Hollywood. (a 91609 | OTHER: |
| Account Customer Number P.O. No. | Technician Machine Name <u>Fete Muglio</u> Number 51-00 |
| OIL PROCESSED: | |
| Manufacturer Product | Type |
| Specific Gravity | |
| SPECIAL INSTRUCTIONS: Jumped 7 | 50 gals of dirty oil out |
| | Tank |
| | |
| | |
| | |
| Gallons Water Recycled Decanted | Water from Processing |
| Solids Run Removed cups Temp | Additive _F if any Quantity |
| TECHNICIAN'S COMMENTS: | |
| | |
| | , |
| | |
| Time a.m Time In 8:00 p.m. Out | a.m. p.m. |
| leter Al Magli | Vienna 12 Rotation |
| Technician Signature | Customer Signature |



RECYCLING SERVICE ORDER

| THE MOBILE SERVICE | SERVICE SERIAL NUMBER4. |
|---|---|
| Allan Aircraft 11643 Vanaven St W. Hollywood Ca 91609 | CONTACT PERSONNEL: Service: Poland. Schedule: Other: |
| Account Customer Number P.O. No | Technician Machine Name Kurt Number 5/68 |
| COOLANT RECYCLED: | |
| Manufacturer <u>Farwest</u> Produc | t |
| acquest Formest concentrate was | colant was neverted for Bland |
| QUALITY CONTROL STANDARDS Gallons at job start Gallons at completion pH Refractometer reading Mix Ratio Color Odor STANDARI XXXXXX Y.Y 2.1 70:1 Lt her | DIRTY (TWO TANKS) CLEAN TOTAL W |
| Gallons Recycled | Tramp Oil gals Processed /5 gals Concentrate //5 gals Concentrate //5 gals F Added Samples in final mix/0% Retained Y N OT Blue Color Added Ola Jank |
| Time In 700 a.m/p.m. // Technician Signature | Time Outa.mp.m. Customer Signature |



1717 Newpor :le Santa Ana, California 92705 714-754-7220

WORK ORDER

No. 2931

DATE 12/25

THIS IS NOT AN INVOICE

| В | | | | | S AD RD 16-15 13 A ST | | | |
|---------------------------------------|---|-------------------------|-----------|---|--|--|-------------------------------------|--|
| l L L | | | | | | | | |
| т О | | | | C E D | s N | · · · · · · · · · · · · · · · · · · · | (. d 47) ; | |
| IT NO. | NEW | ☐ MACH. # | OPER. # | NAME | CUST. P | .0. # | SCH. DATE AL | |
| | RECYC | CLING SERVICE | | · _ | | | | |
| | 300 | COOLANT | | 400 | Ga | Is. The Open | <u>/ C (</u> an)/p | |
| | 300 | HYDRAULIC OIL | | | | | · · | |
| | 300 | CUTTING OIL | | | ····· | Apon arr, | , | |
| | 300 | EDM FLUID | | | | P 100 9915 | | |
| | 300 | QUENCHING FLUID | | | *** | 1 × 1 P | 4- ef tunk | |
| | 300 | OILY WATER | | | | | / Tunk#/ | |
| | | OTHER | | ************************************** | | so pump | et IVC 911 | |
| ia . | OTHER | R SERVICES | | | | lew man | +erfers 5- | |
| | 301 | COOLANT | | | | wat of the | gal tan Kaw | |
| | 100mm | CONDITIONER | | | Ga | ls. Into By | +y tunk # | |
| 2 | - children | MACHINE CLEANE | Ř | union per a periodicipa | | adopt to per | - | |
| | 315 | SET-UP | America . | | Hç | jurs artisted 10 | , yals of lo | |
| | | OTHER PRODUCTS | | | | uncentrute | n+h 100g | |
| | | OTHER SERVICES | | | v a | idelet Blue | علاد | |
| | COMMENTS | | | | | | | |
| | | | | PON.YTQ | | | PRODUCT QTY. | |
| | IE, NU | | D REMOVED | | | | FTER NEW MIX | |
| -c11 | | + 3500 | 15 gal | · · · · · · · · · · · · · · · · · · · | | 2 cups 🛰 | <i>500</i> gal | |
| 0173 | | gal nut | | | ny2 Suck | 1195 011 | | |
| $-\omega\omega_{M}$ | | COMMON COM | | | | | | |
| , · · | | CONTROL STA | NDARDS, S | | | | | |
| , , , , , , , , , , , , , , , , , , , | | CONTROL STA | NDARDS, S | STANDARD | DIRTY | RECYCLED | MAKE-UP | |
| × 3 * 1 | рH | | NDARDS, S | | 7. 8 | 9.0 | 5.9 | |
| , | pH Refr | tac Reading | NDARDS, S | standard 9. 1 2. 2 | 7. 8 3. <i>U</i> | 9.0 | 3. 0 | |
| 2001 | pH Refr Mix | ac Reading | NDARDS, S | \$\text{STANDARD} \\ 9. \ \ \ \ \ \ \ \ \ \ \ \ \ | 7. 8 3. 0 15.1 | 8.0 2.6 18:1 | 3. 0 15: 1 | |
| 2000 | pH Refr Mix Colo | rac Reading Ratio | | STANDARD 9.1 2.2 20:1 Sieen | 7. 8 3. 0 15:1 Green | 9.0 2.6 18:1 -,2en | 9.9 3.0 15:1 610en | |
| 20 | pH Refr Mix Colo | rac Reading Ratio | | \$\text{STANDARD} \\ 9. \ \ \ \ \ \ \ \ \ \ \ \ \ | 7. 8 3. 0 15.1 | 9.0 2.6 18:1 en | 9.9 3.0 15:1 610en | |
| | pH Refr Mix Colc Odor | Ratio | | STANDARD 9.1 2.2 20:1 Sieen Scented | 7. 8 3. 0 15.1 Green Ltiancide | 9.0 2.6 18:1 -,2en | 5.9 3.0 15:1 61een None | |
| | pH Refr Mix Colc Odor Othe | Ratio or er AL COMMENTS | : Nute: | STANDARD 9. 1 2. 2 20:1 Sieen Scented recycled | 7. 8 3. 0 15.1 Green Ltiancide | 9.0 2.6 18:1 -, pen W Nono | 5.9 3.0 15:1 51een None | |
| | pH Refr Mix Colc Odor | Ratio or er AL COMMENTS | : Nute: | STANDARD 9.1 2.2 20:1 Scented recycled rading o | 7. 8 3. 0 15.1 Green Ltiancide | 9.0 2.6 18:1 -,2en | 5.9 3.0 15:1 51een None | |



1717 Newpork de Santa Ana, California 92705 714-754-7220

WORK ORDER

No. 2802

THIS IS NOT AN INVOICE

| | | | | | | | . , , , , | | OL. | | | | |
|--|----------------|-------|------------------|-----------------------|---|-------|---|---------------|------------|---------------------|----------|--------------------|-------------------------------------|
| | B | | 3 5 5 | وتعرضون في فسونت العر | | | - § A | |) |) ~1/m <u>E</u> | | | |
| | L | | 1212 2 | NNOWE | ,u- 371 | | R D V R | | ··· | | | | |
| <i>;</i> | T 0 | | , ittiga v | NOOD . | CA 9/1 | 9 Ů Þ | C S E S | | | | | | |
| COUNT N | | NEW | | | | | | | | | | | |
| | | MEAN | | 51-01 | OPER. # | | ICH HAI T GALI | | CUST. P.O. | * | sc | H. DATE 27-12-8 | AUTH. |
| | | RECYC | CLING SERV | VICE | | | | | | TIME IN | 2. | 00 G | 1/ 2:1 1 |
| | 4 | 300 | COOLANT |) | | | 875 | ***** | Gals. | TIME OU | | | \\$\! \`Da |
| | | 300 | HYDRAULIC | OIL | · | | | | | - 1111 11 00 | <u> </u> | | 1 (E) |
| | | 300 | CUTTING O | IL | *************************************** | **** | *************************************** | | | · | | | |
| | | 300 | EDM FLUID | ı | - | | | | | #1 ADD | ED -15 | 5% B=0 | nczoe(|
| | | 300 | QUENCHING | G FLUID | | | 7//- | | · | ADDED | | al wa | |
| | | 300 | OILY WATE | R | | | | | · | ADSUST | | | |
| | | | OTHER | | | | | | | | | 5% B= | |
| | | OTHE | SERVICES | 3 | | | | | | NO MA | KE-UP | NEED | ED |
| i primi i n | في الموار | 801 | COOLANT | , | | | | | | | | | |
| | to | £., | CONDITION | ED) | | | | 1 | 0-1- | | | | |
| ne de mande | 50 75 0 | | MACHINE (| | *************************************** | | | | Gals. | | | | |
| | ٠ | 315 | SET-UP | LEANEN | | ···· | | | | _ | | | |
| | | 0.0 | OTHER PRO | חוורדא | | | · · · · · · · · · · · · · · · · · · · | | Hour | S | | | |
| | | | OTHER SER | | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| | | | | | | | COMM | FNTS | | | | | |
| | | PRODU | JCT | QTY | .TRAMP | Ç | TY.NOT | | QTY. | SOLIDS | P) | RODUCT | QTY. |
| 1 | MAN | E, N | MBER | FLUID | REMOVE | | RUN | | REMO | OVED | AF | TER NE | XIM W |
| | جوور نر | wEST | 3500 | | .// ga | 1 / | 110 | gal | 2. | 4 cups | =1,4 | 80 47 | gal |
| | | | | | | | | | | 3 20SS | | | |
| (| AUÇ | | CONTROL | | | | | | | | | 158-16 | |
| | | *- | | | | STAN | IDARD | l DI | RTY = 2 | RECYC | LED , | #/MAK | F-UP |
| | | рН | | | | 9.4 | 1 | | 4 2.6 | | | 8.2 | 7 |
| | | Rei | rac Rea | ding | | 2.; | 2 | 3. | 0 20 | | | 2.2 | |
| | | Mix | Ratio | | | 20: | 1 | | :1 23: | | | 20:1 | |
| | | Col | lor | | | GRE | EN . | GAE | EIN GREE | | | SPEEM | |
| | | Odo | or · | | | Non |)É | | UCT NOW | | | None | t |
| | | Oth | ier | | | | | , | | - C | | - 4774 | |
|] | ADD | ITIO | NAL COMM | ENTS: F | UMPED | 480 G | 915 DZ. | RTY CO | CLANT | FROM OL | D" D #6 | 2T'/ T'A | 9ハノぐ ** |
| | | , | Ozaty | | * | | | | | En) SCE | | | 0 TH |
| | | | 1.27% - x | | | 7 | | | | | ···· | | · · · · · · · · · · · · · · · · · · |
| | | | | | NATURE | | 1 | 4796 July 192 | | , m. 14. | | •/ | |
| | | | | | | | TOMED | | | | | | |



1717 Newpo de Santa Ana, California 92705 714-754-7220

| | WORK | ORDER |
|---|------|-------|
| , | No. | 275 |

| | No. | 2767 | |
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| inc. | · C), | THIS IS | NOT AN | INVO | ICE | DAT | re <u>/ (/</u> | <u> </u> |
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| 8 | | | s | <u> </u> | llen An | ccraft | | |
| ! L L | | | E R V | A D | 643 Va | ingvien | 5+ | |
| T 0 | | | C E D | D R E S S | Hollyn | | , 91 | 207 |
| NT NO. NEV | V □ MACH. # | G OPER. # | IAMEP e + 2 1 | 100/10 | CUST. P.O. # | | SCH. DATE | AUTH. |
| RECY | CLING SERVICE | <u></u> | | | Фтил | 7 TN 7 'U | _ | <u> </u> |
| 300 | COOLANT | | | | Gals.retwin | IN <u>24</u> OUT 3 | <u> </u> | |
| 300 | HYDRAULIC OIL | | | | TIME | 5 00T_ 2. | 'am/ | ्याः |
| 300 | CUTTING OIL | | | | <u></u> | | | |
| 300 | EDM FLUID | | | | | | | |
| 300 | QUENCHING FLUII | O | | | | | | |
| 300 | OILY WATER | | | - 111 | ············· | | | |
| | OTHER | | | | | | | |
| NTHE | R SERVICES | • | | | | | | |
| 301 | i | | | | | | | |
| | CONDITIONER | | | | Cala | | | |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | MACHINE CLEANE | | | | Gals. | | | |
| 315 | SET-UP | :n | Alva-v. | | | | | |
| 313 | OTHER PRODUCTS | | | H-111/ | Hours | | | |
| | OTHER SERVICES | | 1801 | - Minds | | | | |
| | | | СОМ | MENTS | | | | |
| PRODU | | Y.TRAMP | QTY.NO | T | QTY.SOLID | S P | RODUCT | QTY. |
| NAME, NU | MBER FLUI | D REMOVED | RUN | | REMOVED | AF' | TER NEW | MIK |
| | | ga1 | | gal | | | | gal |
| OUNT TINY | CONTROL STAN | DARDO CEN | TITTO . | | | | | |
| QUALITY (| | | | Hang 4 | sterfers Ru | | | + |
| рН | <u> </u> | lungs+erfer | | 1000001 | Tank Sound | CYCL | MARE | |
| | rac Reading | 9.0 | 9,1 | 8.5 | 8.6 | 8.7 | 4, | |
| | Ratio | 5.4 | / 2,2 | 7.0 | 7.0 | 3.0 | 3_(| |
| Col | | 20:1 | 120:1 | 18:1 | 18:1 | 15:1 | 15: | |
| Odo: | | white | Green | White | ` | | 6.72 | |
| | | scented! | Scented | Mint | . Minty | Manty | <u>. M.</u> | n+y. |
| Oth: ADDITION | | | ر بس | | | | | |
| | | 000000 9C | | | | | | |
| <u>ude</u> | ed lyt + | o Hungste | rteis 50 | 0741- | tan K + F | -ar Wes + | 500, | 1/ 7 |
| Tyn | K 47, Ada | ded 3/4 pt | to Fu | MITS | + tank | <u> </u> | | |
| | CUSTOME | R SIGNATURE | P-P- | 2 4 | KAMEN | | | |

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WORK ORDER

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| \mathcal{J} | | inc. | , | THIS | IS NOT | AN IN | VOICE | | DATE | | ė, , , , , , , , , , , , , , , , , , , |
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| | B I L | | | | | S A B D | | 3 Van | | 7 - | |
| | Ĺ | *************************************** | | | - | ERVICE: | | | | | |
| | 0 | | | **** | | C S E S | N Ho | · lly wo | 8d (3 | · 414 | 5.07 |
| CCOUNT | NO. | NEW | MACH. # | OPER. # | NAME 1++e | Man | CUST. P. | O. # | sc | CH. DATE | AUTH. |
| | | RECY | CLING SERVICE | oil | てるのと母! | Tank | ار ا | | · · · · · · · · · · · · · · · · · · · | | |
| | | 300 | COOLANT | 20+ | 420+ | 452 | =892 Gal | TIME 1 | N Z Z | Company | om m |
| | | 300 | HYDRAULIC OIL | ***** | | | | TIME C | 7. <u>7.</u> | o any | J.H . |
| | | 300 | CUTTING OIL | | | | | | | | |
| | | 300 | EDM FLUID | | - 114 | | | | | | |
| | | 300 | QUENCHING FLUI | D | | | | | | | |
| | | 300 | OILY WATER | | | | | | | | |
| | | | OTHER | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| | | OTHE | R SERVICES | | | | | | | | |
| | | 301 | COOLANT | | | | | | | | |
| | | | CONDITIONER | | | | 2 Ga | ls. adde | c 6p- | ts to e | 97. 1 |
| 4 | | | MACHINE CLEANE | | . • • | | | ls. adde Tunk | (150% | ,) | |
| | | 315 | SET-UP | | | | Но | urs adde | rd 750 | ls conta | 107 + · |
| | | | OTHER PRODUCTS | <u> </u> | | | | Tunk# | 1 | | |
| | | | OTHER SERVICES | | | | | Tank # and oct Tank | 9,90/5 | coclar |) / |
| | | | | | | COMMEN | TS | <u> </u> | | | |
| | | PROD | uct ç | TY.TRAMP | QTY | TON. | QTY | .SOLIDS | P | RODUCT | QTY. |
| | NAM | E, N | UMBER FLU | JID REMOVE | <u>ED</u> <u>I</u> | RUN | RE | MOVED | <u>AF</u> | TER NEW | MIK |
| | Far | Wes | + 3500 | 20 ga | 11 | 64 ga | 1 | 3 cups | | 487 | gal |
| | 32 | 94/5 | in each ta | ink nut | run du | e to | pump: | | | | |
| | QUA | LITY | CONTROL STA | ANDARDS, S | | · , | · | RUN | TEMP:_ | 156 | |
| | | . ——— | | | STANDA | | DIRTY | | ACTED | # MAKE | -UP |
| | * | рН | | 9. | 0 | 16.8 | 6.5 | 6.9 | 6.3 | 8.5 | 8.1 |
| | , | Re | frac Reading | | <u>2</u> | 12.0 | 1.8 | 1.8 | 1,6 | 2.8 | <u> ユ</u> |
| | | Mi | x Ratio | 20 | <u>; </u> | 23:1 | 25:11 | 25:1 | 28:11 | 17:1 | 17. |
| | | Co | lor | 6 re | | 1 B/4e | Blue | Blue | Blue | Blue | <u> Bi</u> |
| | | | | 5(4 | nted | Heavy | rancidity | No | ne | Non a | No |
| | | | her | | | | | | | | |
| | א ריי ע | OTTT | NAL COMMENTS | S: | | 1 | i | | | | |

CUSTOMER SIGNATURE

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WORK ORDER

| servi | CIII 19 714 754 7000 | ornia 92705 | | | | ი. 259 | |
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|) inc. | | THIS IS | NOT AN IN | VOICE | DA | TE | *************************************** |
| B I L T O | | | SERUD RESS | <u> </u> | S. K. 19 2 1 5 5 | | |
| | EW D MACH, # C | OPER. # NAM | | CUST. P.O. # | | SCH. DATE | ΑU |
| DEC. | YCLING SERVICE | | 31,01 - 71- 2 | | | | |
| 300 | COOLANT | 280 | | | IME IN | | _ |
| | HYDRAULIC OIL | | | Udis, m | IME OUT | am/ |) m |
| 300 | CUTTING OIL | | *************************************** | | | | |
| 300 | EDM FLUID | | | | | | |
| 300 | | | | | | | |
| 300 | QUENCHING FLUID | | | | | | |
| 300 | OILY WATER | | | | ,, | | |
| | OTHER | | | · | | | |
| OTH | ER SERVICES | | | | | | |
| 301 | COOLANT | | | | | | |
| | CONDITIONER | *************************************** | | Gals. | | | |
| | MACHINE CLEANER | ssumsmin T | | | | | |
| | CET UD | | | | | | |
| 315 | SET-UP | | | Hours | | | |
| 315 | OTHER PRODUCTS | | | | | | |
| 315 | | POMPED S | 50 ja sonla | NT FROM D | RUMS | | |
| | OTHER PRODUCTS OTHER SERVICES | | COMMEN | NT FROM D | | DDODUGE (| |
| PROE | OTHER PRODUCTS OTHER SERVICES OUCT QTY. | TRAMP | COMMEN QTY.NOT | <u>NT From 1</u> I TS QTY.SO: | LIDS | PRODUCT (| |
| PROE | OTHER PRODUCTS OTHER SERVICES OUCT QTY. | TRAMP REMOVED | COMMEN QTY.NOT RUN | NT FROM 1 ITS QTY.SO: REMOVE | LIDS | FTER NEW | M |
| PROE | OTHER PRODUCTS OTHER SERVICES OUCT QTY. | TRAMP | COMMEN QTY.NOT | NT FROM 1 ITS QTY.SO: REMOVE | LIDS | | M |
| PROE NAME, N | OTHER PRODUCTS OTHER SERVICES OUCT QTY. | TRAMP REMOVED gal | COMMEN QTY.NOT RUN ga | NT FROM 1 ITS QTY.SO: REMOVE | LIDS | FTER NEW | M. |
| PROE NAME, N | OTHER PRODUCTS OTHER SERVICES DUCT QTY. NUMBER FLUID | TRAMP REMOVED gal ARDS, STAT | COMMEN QTY.NOT RUN ga | NT FROM 1 ITS QTY.SO: REMOVE | LIDS : | FTER NEW | MI GR |
| PROE NAME, N | OTHER PRODUCTS OTHER SERVICES DUCT QTY. NUMBER FLUID OCCUPANCES S-500 CONTROL STANDA | TRAMP REMOVED gal ARDS, STAT | COMMEN QTY.NOT RUN ga | NT FROM A ITS QTY.SO REMOVE | LIDS ED A RUN TEMP: | fter new X 160°-/ | MI Ge |
| PROD NAME, N // A: QUALITY PF | OTHER PRODUCTS OTHER SERVICES DUCT QTY. NUMBER FLUID OCCUPANCES S-500 CONTROL STANDA | TRAMP REMOVED gal ARDS, STAT | COMMEN QTY.NOT RUN ga | NT FROM A ITS QTY.SO: REMOVE 1 DIRTY | LIDS ED A RUN TEMP: RECYCLED | FTER NEW X /60°-/ MAKE- | MI Ge |
| PROF NAME, N A | OTHER PRODUCTS OTHER SERVICES DUCT QTY. NUMBER FLUID CONTROL STANDA | TRAMP REMOVED gal ARDS, STAT | COMMEN QTY.NOT RUN ga | NT FROM A ITS QTY.SO: REMOVE 1 DIRTY 7.0 | LIDS ED A RUN TEMP: RECYCLED | FTER NEW X /60°-/ MAKE- | MI Ge |
| PROD NAME, N A | OTHER PRODUCTS OTHER SERVICES DUCT QTY. NUMBER FLUID CONTROL STANDA Efrac Reading | TRAMP REMOVED gal ARDS, STAT | COMMEN QTY.NOT RUN ga CUS: STANDARD | NT FROM A ITS QTY.SO: REMOVE DIRTY 7.0 | RUN TEMP: | FTER NEW X /60°-/ MAKE- | Mi ga W.E |
| PRODUALITY PH Ref Mi Co | OTHER PRODUCTS OTHER SERVICES DUCT QTY. NUMBER FLUID CONTROL STANDA Frac Reading Exercise Reading Exercise Reading | TRAMP REMOVED gal ARDS, STAT | COMMEN QTY.NOT RUN ga | NT From 1 ITS QTY.SO: REMOVE 1 DIRTY 7.0 2 40:// | RUN TEMP: RECYCLED | FTER NEW X /60°-/ MAKE- | Mi ga W.E |
| PROD NAME, N PA | OTHER PRODUCTS OTHER SERVICES DUCT QTY. NUMBER FLUID CONTROL STANDA Efrac Reading Ex Ratio Color | TRAMP REMOVED gal ARDS, STAT | COMMEN QTY.NOT RUN ga TUS: STANDARD | NT From 1 ITS QTY.SO: REMOVE 1 DIRTY 7.0 2 40:1 | RUN TEMP: RECYCLED 2 3 40:/ | FTER NEW X /60°-/ MAKE- | Mi ga W.E |
| PROFINAME, NAME, N | OTHER PRODUCTS OTHER SERVICES DUCT QTY. NUMBER FLUID CONTROL STANDA Efrac Reading Ex Ratio Color Control Standa | TRAMP REMOVED gal ARDS, STAT | COMMEN QTY.NOT RUN ga TUS: STANDARD | NT From 1 ITS QTY.SO: REMOVE 1 DIRTY 7.0 2 40:1 | RUN TEMP: RECYCLED 2 3 40;/ W///* | FTER NEW X 160°-/ MAKE- X | Mi ga W.E |
| PROFINAME, NAME, N | OTHER PRODUCTS OTHER SERVICES DUCT QTY. NUMBER FLUID CONTROL STANDA Efrac Reading Ex Ratio Color Control Standa | TRAMP REMOVED gal ARDS, STAT | COMMEN QTY.NOT RUN ga PUS: STANDARD OCULT AND IT AND IT | NT FROM A ITS QTY.SO: REMOVE 1 DIRTY 7.0 9 40:/ RAIKA | RUN TEMP: RECYCLED 2 3 40;/ White | FTER NEW X 160°-/ MAKE- X | MI ga W(8 -UI |
| PROFINAME, NAME, N | OTHER PRODUCTS OTHER SERVICES DUCT QTY. NUMBER FLUID CONTROL STANDA A control standa Efrac Reading Ex Ratio Color Conal comments: A | TRAMP REMOVED gal ARDS, STAT S 8,7 | COMMEN QTY.NOT RUN ga TUS: STANDARD ANTIC | NT FROM A ITS QTY.SO: REMOVE 1 DIRTY 7.0 2 40:/ RANCA ANJUSTO | RUN TEMP: RECYCLED 2 3 40;/ White | FTER NEW X 160°-/ MAKE- X | MJ ga |



1717 Newport e Santa Ana, California 92705 714-754-7220

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WORK ORDER
No. 2728

DATE

| B I L | | | S A D D R E S S | 643 9100 | ver st |
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| τ 0 | | a de la companya de | C E S N | | Ca allie |
| UNT NO. | NEW MACH. # 06 | OPER. # NAME | +0 Tue,1.0 | CUST. P.O. # | SCH-DATE AUTH. |
| RE | ECYCLING SERVICE | • | | TIME IN | 745 am/pm |
| 30 | 00 COOLANT | 4 | <u>65</u> | | T 5 15 am/pm) |
| 30 | HYDRAULIC OIL | *************************************** | | | iteal movertille |
| 30 | OO CUTTING OIL | - | | • | mppelout 16gar |
| 30 | OO EDM FLUID | | | | - and clean of |
| 30 | QUENCHING FLUID | | | - inside of | 1100 gal Tank |
| . 30 | O OILY WATER | | | <u> </u> | Ucza i z |
| | OTHER | | | | 48 cycls of |
| 01 | THER SERVICES | | | | cut of drum |
| 30 | 01 COOLANT | | | | TY TUNK |
| | CONDITIONER | | | Gals. added | lugals of cold |
| | MACHINE CLEANER | | | | |
| 31 | I 5 SET-UP | | | Hours | |
| | OTHER PRODUCTS | | | · · · · - | 2 pts Buelds |
| | OTHER SERVICES | | | | 0 |
| | | | COMMENTS | • | |
| PF | RODUCT QT | Y.TRAMP | QTY.NOT | QTY.SOLIDS | PRODUCT QTY |
| | | O REMOVED | RUN | REMOVED | AFTER NEW MI |
| Hang 5 | terfers 5-500 | 15 gal | 15 gal | 6 cups | 4 7 5 ga |
| | | in due to | | ucking gir | <u> </u> |
| QUAL | ITÝ CONTROL STANI | DARDS, STATU | S: ' | RUN T | 'EMP: 163 |
| | | | | IRTY RECYC | CLED MAKE-UP |
| | рН | 9.0 | · · · · · · · · · · · · · · · · · · · | 5 8.6 | 9. |
| | Refrac Reading | 5.4 | | 0 3.4 | 6.0 |
| | Mix Ratio | 20:1 | 30 | [] 33:] | [] |
| | Color | white | Ta | , | White |
| | Odor | Scentod. | Ltra | incidity Non | e Non- |
| | Other | / | · · · · · · · · · · · · · · · · · · · | · | |
| ADDI | TIONAL COMMENTS: | | | | |
| .,, | | | | | |
| _ | | | | | |
| | CUSTOMER S | GNATURE | 2 1//www | | |
| | | - Cl | JSTOMER 1 | عو سنلزم | |



1717 Newports Santa Ana, California 92705 714-754-7220



WORK ORDER

No. 2729

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| <u></u> | | | | | 43 V | anciu e | m ST. |
| | | | C E | DD RESS | Holly | nuad a | (a 9/6 |
| NEV | V D MACH. # U6 | OPER. # NA | ME) e + e | Taglio | CUST. P.O. # | | SCH. DATE |
| RECY | CLING SERVICE | | | , | TI | ME IN 7 | 145 GA |
| 300 | COOLANT | | 480 | | | | 15 am |
| 300 | HYDRAULIC OIL | | | | | | |
| 300 | CUTTING OIL | | 1 | | | | icling th |
| 300 | EDM FLUID | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | | | | | umped |
| 300 | QUENCHING FLUID | | | | _ 941 | · Æ | W and |
| 300 | OILY WATER | | | | / ///// | lan + our | + of ele |
| 500 | OTHER | | | | _ (n+ | D 1 +- | 1 tank |
| OTUE | R SERVICES | | | | | | |
| | COOLANT | | | , | | | |
| 301 | | | | | Gals. | | |
| | CONDITIONER | | | | Uals. | | |
| | MACHINE CLEANER | · · · · · · · · · · · · · · · · · · · | | | | | |
| 315 | SET-UP | | | | Hours | | |
| | OTHER PRODUCTS | | | ni. | | | |
| | OTHER SERVICES | *************************************** | | AMENITO | | | |
| PROD | UCT QTY | .TRAMP | OTY.N | MENTS OT | QTY.SOL | IDS | PRODUCT |
| ME, N | UMBER FLUID | REMOVED | RUN | | REMOVE | <u>ID</u> | AFTER NE |
| x+er | fers 5-500 | 15 gal | 15 \$ | gal | 70 | 195 | |
| 15 | gals not re | un due | to pur | P 540 | King a | 416 | |
| *************************************** | CONTROL STAND | | | , | | RUN TEMP | 160 |
| | | | STANDARI | <u>DI</u> | RTY | RECYCLED | MAK MAK |
| pН | | | 9.0 | 6. | 8 | 7.2 | • |
| Re | frac Reading | | 5.4 | 0. | 4 | 0.2 | |
| Mi | x Ratio | 2 | 0:1 | 80: | 1 | (00:1 | |
| 1-11 | olor | u | hite | Brow | in | Tan | |
| | | | | Heavy Co | privity | None | |
| Cc | lor | 90 | ented | ticuly is | ,,,,,, | | |
| | lor ther | <u>50</u> | ented | (scary re | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |

CUSTOMER

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WORK ORDER

No. 2620

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| T 0 | | A Delimate | | · , n — | | inical c | |
|). ` | NEW | MACH. # | OPER. # NAME | ote Man | CUST. P.O. # | [: | SCH. DATE |
| | RECY | CLING SERVICE | | | | IME IN 7 | 30 5-1. |
| | 300 | COOLANT | 1065 | | Gals | IME OUT | 15 am/s |
| | 300 | HYDRAULIC OIL | | | | * . | |
| | 300 | CUTTING OIL | <i>)</i> # | | | 8/13/8 | Í |
| | 300 | EDM FLUID | 7 64 | | | 9:00A | IM TO |
| | 300 | QUENCHING FLUID | , | | | 3:001 | ort |
| | 300 | OILY WATER | | | | | |
| | | OTHER | | | | | |
| | OTHE | R SERVICES | | | | | |
| | 301 | COOLANT | | | | | |
| | 301 | | | 1 | : Onto | added 12 | Ats Biec |
| | | CONDITIONER | | \ | Gals. | (15/76 | , |
| | `> 045 | MACHINE CLEANER | | | | C1279 | eg Tan Zand |
| | 315 | SET-UP | | | Hours | addd289 | a15 Cou |
| | | OTHER PRODUCTS OTHER SERVICES | <i>y</i> | | | concentrated added bye | r .s |
| | | OTTEN SERVICES | | COMMENT | | arriver by C | |
| | PRODU | JCT QTY | .TRAMP Q | TY.NOT | QTY.SC | DLIDS I | PRODUCT |
| 1 | | | | RUN | REMOV | | FTER NEW |
| AMI | | | REMOVED | | | | |
| AMI | | JMBER FLUID ST 3500 | 15 gal | 2-0 gal | u uc | ups | |
| EO/ | Wes | st 3500 · | 15 gal | 2-0 gal | Ч с | | 179 |
| EO/ | Wes | | 15 gal | 20 gal | | RUN TEMP: | 168 |
| EO/ | Wes | st 3500 · | 15 gal ARDS, STATUS: STAN | 2-0 gal | DIRTY | RUN TEMP: | MAKE |
| EO/ | Wes | CONTROL STAND | 15 gal ARDS, STATUS: STAN 9.0 | 2-0 gal | | RUN TEMP: RECYCLED | MAKE S |
| EO/ | Wes | CONTROL STAND | 15 gal ARDS, STATUS: STAN | 2-0 gal | DIRTY 6.6 | RUN TEMP: RECYCLED 68 | MAKE 8 ' |
| EO/ | PH Ref | CONTROL STAND frac Reading Ratio | 15 gal ARDS, STATUS: STAN 9.0 2.2 20:1 | 2-0 gal | DIRTY 6.6 1.4 3.0! | RUN TEMP: RECYCLED 6.8 1.0 40:1 | MAKE 8. 1 2 19: |
| EO/ | Wes | CONTROL STAND frac Reading Ratio | 15 gal ARDS, STATUS: STAN 9.0 2.2 20:1 Gleen | 2-0 gal | DIRTY 6.6 1.4 30:1 | RUN TEMP: RECYCLED 6.8 1.0 40:1 Tan | MAKE 8 ' 7 19 : |
| AMI O/ | PH Ref | CONTROL STAND frac Reading Ratio | 15 gal ARDS, STATUS: STAN 9.0 2.2 20:1 | 2-0 gal | DIRTY 6.6 1.4 3.0! | RUN TEMP: RECYCLED 6.8 1.0 40:1 | MAKE 8 ' 7 |
| O/ | PH Ref | CONTROL STAND frac Reading k Ratio lor | 15 gal ARDS, STATUS: STAN 9.0 2.2 20:1 Gleen | 2-0 gal | DIRTY 6.6 1.4 30:1 | RUN TEMP: RECYCLED 6.8 1.0 40:1 Tan | MAKE 8 ' 7 |
| CO (| PH Ref | CONTROL STAND frac Reading k Ratio lor or | 15 gal ARDS, STATUS: STAN 9.0 2.2 20:1 Gleen | 2-0 gal | DIRTY 6.6 1.4 30:1 | RUN TEMP: RECYCLED 6.8 1.0 40:1 Tan | MAKE 8. 1 2 19: |



1717 Newpa de Santa Ana, California 92705 714-754-7220

WORK ORDER

2463 No.

| THIS IS NO | OT A | ΔΝ | INV | OICE |
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| | | 443 VA106 | OWER 5. | |)) ! —————————————————————————————————— | | |
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| т 0 | | 11 4066Yno. | OD , CM | r - | • | | |
| JNT NO. | NE | W □ MACH. # | OPER. # | NAME HALL | | ?.O. # | SCH. DATE |
| | RECY | CLING SERVICE | | ALCH MANN | ·E/ | | 6-2-57 |
| | 300 | COOLANT | | 270 | 0. | | |
| | 300 | HYDRAULIC OIL | | | Ga | ıls. | |
| | 300 | CUTTING OIL | | | ···· | TIME IN 8 | |
| | 300 | EDM FLUID | | | | TIME OUT | am/pm |
| | 300 | QUENCHING FLUID | | | | | |
| | 300 | OILY WATER | | | | | |
| | | OTHER | | | ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· | | |
| | OTHE | R SERVICES | | | | | |
| | 301 | COOLANT | | | , | · | |
| | 301 | CONDITIONER | | | _ | | |
| | | MACHINE CLEANER | | | Ga | ls. | |
| ; | 315 | SET-UP | | | | | |
| | 010 | OTHER PRODUCTS | | | Ho | urs | |
| | | OTHER SERVICES | , | | | | |
| | | OTHER CERTICES | | COMM | ENTO | | |
| F | PRODU | CT QTY. | TRAMP | QTY.NOT | | SOLIDS | DDODEGE ACT |
| NAME | E, NU | | REMOVED | RUN | | | PRODUCT OF |
| | WEST | | | 1940 | gal 16.8 | | FTER NEW MO |
| FAR | | LEAN TANK FU | | | <u>, 10</u> | Cor | ga |
| FAR | OCA | | | ATUS: | ····· | RUN TEMP: | 165-170 |
| | | CONTROL STANDA | RDS, STA | STANDARD | DIDMI | | |
| | | | ARDS, STA | DIMINI | DIRTY | RECYCLED | the state of the s |
| | | | ARDS, ST | 7. B | DIRTY 6.4 | RECYCLED 6.3 | |
| | PH | | ARDS, STA | | | 6.3 | IN CLEAN THE 8.2 |
| | pH Ref | CONTROL STANDA | ARDS, STA | 7. B | 6.4 | - | 1N SCEND TH 8.2 1.2 |
| | pH Ref | CONTROL STANDA rac Reading Ratio | ARDS, STA | 9. 3 1.6 | 6.4 | 6.3 1.0 25.1 | 1N SCEND TH 8:2 1:2 23:1 |
| | pH Ref | CONTROL STANDA rac Reading Ratio | ARDS, STA | 7. 3 1.6 20:1 | 6.4 1.0 25:1 | 6.3 | #N SCEND TH 8:2 1:2 23:1 646.5:10 |
| | pH Ref: | CONTROL STANDA rac Reading Ratio or | ARDS, ST | 9.8 1.6 20:1 81.VE | 6.4 1.0 25:1 GRAY | 6.3 1.0 25:1 GRAY-GNEEN | 1N SCEND TH 8:2 1:2 23:1 |

CUSTOMER



1717 Newport de Santa Ana, California 92705 714-754-7220

| WORK | ORE | E | R | |
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| No. | 2 | 4 | 6 | 1 |

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THIS IS NOT AN INVOICE

| B/ , | *** | | · _ * ^ * ^ . ^ . ^ | | S A E D R D | | | | |
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| L | | <u> </u> | PANUNE | . 9 (| ADDRESS | | | | |
| T 0 | | <i>90 4.</i> 2 | ת פלייני בי | 91607 | C S E S D | | | | |
| Ю. | NEW | EXISTING 12 | MACH. # 0 | PER. # N | AME ALLH HAMEL | CUST. P.O. # | | SCH. DATE ろつえき オラ | , |
| | RECY | CLING SEI | | | | | | | |
| | 300 | COOLANT | | | 255 | Gals. | | | |
| - | ` | HYDRAUL | • ' | | | rr | TAGE TAG / 1 | 7 : A = - n:a : | |
| | 300 | CUTTING | | | | | IME IN <u>//</u> IME OUT | | |
| | 300 | EDM FLU | | | | <u></u> | LME OUI | al.!/ | Ω. |
| | 300 | QUENCHI | | | | | | | |
| | 300 | OILY WAT | | | | | | | |
| | | OTHER | | | | · · | | | |
| | NTHE | R SERVIC | FS | | | | | | |
| | 301 | COOLANT | | | | | | | |
| | | CONDITIO | | | / | Gals. | | | , |
| | | | CLEANER | | | | | | |
| | 315 | SET-UP | . 000 | | | Hours | | | |
| | 0.0 | | RODUCTS | | | | | | |
| | | OTHER S | | | | | | | |
| | | | | | COMME | NTS | | | |
| | PROD | UCT | QTY. | TRAMP | QTY.NOT | QTY.S | OLIDS | PRODUCT | Q |
| NA | ME, N | UMBER | FLUID | REMOVED | | REMO | VED | AFTER NE | W |
| F | AR WE | | | 3 gal | O 600 0 | gal .8 | CUPS | | |
| | 1 F. | . w 1/2 · 100 · 10 | Luses At | 4:00 | | | | | |
| QU. | ALITY | CONTRO | OL STANDA | ARDS, ST | ATUS: | | RUN TEMP | | |
| | | | | | STANDARD | DIRTY | RECYCLED |) MAK | <u>E-</u> |
| | Hq | | | | 9.5 | 6.6 | 6.7 | | |
| | Re | frac Re | eading | | 1.8 | 1 6 | 1.4 | | <u>, </u> |
| | <u>i</u> M | x Ratio | <u> </u> | | <u> </u> | 23∶/ | 22:1 | | $\frac{\lambda_{i}}{\lambda}$ |
| • | Cc | olor | | | GREEN | GRAY | GRAY-GRE | ev / | <u>/ \</u> |
| | _00 | lor | | | wit | LIGHT - RANGE | DETY NONE | | |
| | | her | | | | | | | |
| AD | DITIC | DNAL CO | MMENTS: | ADDED J | 5% GARTAN | | | | |
| | | | -, | | | | <u> </u> | | |
| | | | | | | | | ~ ~ | |

fluid recycling services, inc.

1717 Newpo.__.rde Santa Ana, California 92705 714-754-7220

WORK ORDER

No. 2307

| NU. | _ | نب | U | j | |
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| | inc. | :e <i>s,</i> | 347220 | THIS IS | S NOT A | N INVO | ICE | c | DATE | |
|-------------|---|--------------|-------------|---|--|--|--|---------------|---|----------|
| 8 | Ail | 11 1 11 | craf+ | - 5400 | y Co. | | | | | |
| i L | 114 | | , | er 57 | | E D R D V R | | | | |
| T 0 | Nor | | | | 1,911/19 | R ———————————————————————————————————— | | | | |
| ACCOUNT NO. | NEV | | ACH. # 03 C | | NAME Pete | Maglio | CUST. P.O. | * // 21 0 2 | SCH. DATEAUT | н. |
| | BECV | EXISTING CLL | | 1 | 16 16 | 1 1441.6 | <u> </u> | 43197 | 4/11/4/7 | |
| | 300 | COOLANT | NOE. | | 11.50 | | Gals. | | | |
| | 300 | HYDRAULIC | : 011 | | <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u> | | Gais. | | 45 A | |
| | 300 | CUTTING OF | | 4.6 | / | | | TIME IN 7 | | |
| | 300 | EDM FLUID | | | | | | TIME OUT 5 | ioc am (pm | |
| | 300 | QUENCHING | | | | | | | | |
| | 300 | OILY WATE | | | | | ····· | | | |
| | | OTHER | • | *************************************** | | | | | | |
| | OTHE | R SERVICES | 8 | | | | | added. | 150% | |
| | 301 | COOLANT | | | | | | | | |
| | | CONDITION | ER | | | | Gals. | Sample | -Collins | |
| | | MACHINE C | LEANER | | | | | unt tu- | alakke it | |
| | 315 | SET-UP | | | | | Hour | stallow | The proces | . , |
| | | OTHER PRO | DUCTS | | | | | of a constant | | |
| | | OTHER SER | VICES | | | | | | | |
| | | | | | CC | MMENTS | | | | |
| | PROD | UCT | QTY. | TRAMP | QTY. | NOT | QTY. | SOLIDS | PRODUCT QTY | • |
| | | UMBER | FLUID | REMOVED | RU | N | REM | OVED | AFTER NEW MI | X |
| Far I | 46- | 7 7 | | 5 gal | 4 | 5 gal | <u>; 6</u> | 4 cups | ga | 1 |
| | 4/5 | galnot | <u> run</u> | dueto | - Duny | cavita | hon + | machine | Plumina | |
| QUA | ALITÝ | CONTROL | STANDA | ARDS, SI | ATUS: | | | RUN TEME | 17001 | |
| | *************************************** | | | | STANDAR | | IRTY | RECYCLEI | MAKE-UP | <u> </u> |
| | pH | | | | 9.4 | | 7.9 | 8,1 | *************************************** | · |
| | | frac Rea | ding | | 2.0 | | <u> 2,0 </u> | 1,8 | | |
| | | x Ratio | | *************************************** | 70:1 | | 76:1 | 32:1 | | |
| | | lor | | | Cars. | | heen | Thean | | |
| | | or . | | | V | | | | | |
| * ** | | her | (ENITE C | | Δ | _1 -1. | . A | <u> </u> | 1 1 | |
| AD) | 01110 | NAL COMM | ENTS: | 1 de | 2 pla | ut lo | $\frac{add}{4}$ | Sgal of | odast. | , |
| | Co | · · · | £ 9 | Just | mig | Aglia | - 10- | 2011, du | d replemen | ř . t |
| | | many and | -ento | <i></i> | | ٠ . | | | | |
| | | CUS | TOMER SIG | NATURE | | ٠ | The state of the s | K Harman | | |

CUSTOMER



1717 Newpo. __rcle Santa Ana, California 92705 714-754-7220

| - | WORK | ORDER |
|---|------|-------|
| | No. | 224 |

| No. | 2247 | |
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| THIS IS NOT AN INVOICE | T | HI | S | IS | N | OT | AN | IN | VOI | CE |
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| \bigcirc | | .• | 11113 | IS NOT A | N INVO | ICE | |
|------------------|-----------|---------------------------------------|-------------|---------------------------------------|---------------------------------------|--------------|---------------------------------------|
| B I L | | ng congliga |] | | S A E D R D | : | |
| т О | . , | · · · · · · · · · · · · · · · · · · · | 1 100 | | ADD RESS | | |
| COUNT NO. | NEV | V MACH. # | OPER. # | NAME | | CUST. P.O. # | SCH. DATE AUTH |
| P ** NO NO . | RECY | CLING SERVICE | | | | | |
| | 300 | COOLANT | ٤' | 709 | | Gals. | |
| | 300 | HYDRAULIC OIL | ··· | | | TIME IN | · · · · · · · · · · · · · · · · · · · |
| | 300 | CUTTING OIL | | | | TIME IN | am/pa |
| | 300 | EDM FLUID | | | | | <u>200</u> ≥∞ /pm |
| | 300 | QUENCHING FLUI | D | | | | |
| | 300 | OILY WATER | | | | | |
| | | OTHER | | | **** | | |
| | OTHE | R SERVICES | | | | • | <i>‡</i> |
| | 301 | COOLANT | | | 7 | | |
| | | CONDITIONER | | 1 | | Gals. | |
| | | MACHINE CLEANE | ER | | * | | and we have |
| | 315 | SET-UP | | · · · · · · · · · · · · · · · · · · · | | Hours | |
| | | OTHER PRODUCTS | S | | · · · · · · · · · · · · · · · · · · · | | |
| | | OTHER SERVICES | | | | | |
| | | | | COI | MMENTS | | |
| | SODUC. | | Y.TRAMP | QTY.NO | <u>r</u> g | TY.SOLIDS | PRODUCT QTY. |
| NAME, | | | D REMOVED | RUN | | REMOVED | AFTER NEW MIX |
| FAR | WEST | - | 6 gal | 91 | gal | 1.2 cups | |
| 011 2 T 2 | | OTTO OT OTTO | | | | | |
| QUALI | TY C | ONTROL STANI | DARDS, STA | | | | MP: AVE 160° |
| | ——— рН | | | STANDARD | DIR | | ED MAKE-UP |
| - | | ac Reading | | 9.0 | 7.0 | | |
| | | Ratio | | 2.0 | 2.2 | | |
| | Colo | | | 20:1 | 19:1 | | |
| | Odor | | | S GREEN | GRE | | 7 XV |
| | Othe: | | | NONE | RANIC | ID NOTU: | |
| ADDIT | | L COMMENTS: | ADDE | D Rioc | +D= | 15% | |
| | | | y/ 2322 | من ایا دیکستا | <u> </u> | - , | |
| | | | | 1 1 | 1. | // | |
| | | | | | | | |

CUSTOMER

MATERIAL SAFETY DATA SHEET

The purpose of this data sheet is to obtain technical information for each specific material from the manufacturer. This information is required to evaluate health, safety and environmental hazards, determine precautions and make final recommendations for use of the material. The information requested will be kept confidential and disclosed only as necessary to meet requirements of the Occupational Safety and Health Act of 1970 or as required by any other Federal, State or Local regulations.

| 2/1/06 | "VUVI | 1 11 1 | MARCH 1986 |
|---|------------------|---------------------------------------|------------|
| 3/1/86 | SECTION ALAN. | -1805 | |
| | SECTION TEAM OF | ^o, | |
| MANUFACTURER'S NAME METALUBE CORF | | 714/545-082 | EPHONE NO. |
| ADDRESS (Number Street City State and ZIP Code) | | | |
| 7132-B GARDEN GROVE BLVD., WESIM | INSIER, LA 92003 | ADE NAME AND SYNONYMERCLEAN BLUE GOLD | 15 - |
| NON-HAZARDOUS COMPOUND CHEMICAL FAMILY | LEORMULA | OPRIFTARY | |
| STRONGLY BASIC SOLUTION | | W. N. I. Links | |

| SECTIO | <u></u> | | RDOUS INGREDIENTS | | |
|--|----------|----------------|--|--|----------------|
| PAINTS, PRESERVATIVES & SOLVENTS | % | TLV (Units) | | % | TLV (Units) |
| Pigments | | NA | Base Metal | <u> </u> | NA |
| Catalyst | <u> </u> | NA | Alloys | ' | NA NA |
| Vehicle, | ! | NA | Metallic Coatings NONE | | NA NA |
| Solvents NONE | · | NA | Filler Metal Plus Coating or Core Flux | | NA |
| Additives | · | NA NA | Others | | |
| Others | <u></u> | | , | % | TLV |
| HAZARDOUS MIXTURES OF OTHER SOLVENTS | | | | | (Units) |
| A MSDS IS REQUIRED ONLY FOR HAZARDOUS MATERIALS. THIS IS SUBMITTED TO ASSURE | | | | | · |
| THE ABSENCE OF HAZARDOUS INGREDIENTS IN THE FORMULATION OF THIS PRODUCT. | | | | | ļ |
| TOXICITY REPORTS AVAILABLE UPON F | REQI | UEST. | | | |
| | | | | <u>'</u> | Ĺ |

| | SECTION III - | PHYSICAL DATA | |
|-------------------------|---------------|---|---------|
| Boiling Point (°F) | 208 | Specific Gravity (H ₂ O = 1) | 1.0 |
| Vapor Pressure (mm Hg.) | Undet. | Percent Volatile by Volume (%) | 87 |
| Vapor Density (Air = 1) | Undet. | Evapóration Rate (= 1 |) Undet |
| Solubility in Water | Complete | | |
| | , PEPPERMIN | | l . |

| SECTION | IV - FIRE ANI | D EXPLOSION HAZARD DATA | | |
|------------------------------------|---------------|-----------------------------------|-------|----|
| Flosh Point (Method used) | NONE . | Not Flammable Flammoble Limits | NA NA | NA |
| Extinguishing Media | NONE | | | |
| Special Fire Fighting Procedures | NONE | | | |
| | | | | |
| Unusual Fire and Explosion Hazards | NONE | | | |
| | | | | |

| | | S | ECTION | ٧. | - HEAL | TH HAZARD DA | ATA |
|--|------------------|----------------------|-------------------------------|-------------------------|------------------|------------------------------|--|
| Threshold Limit | Volue | | NA | | | | |
| Effects of Overe | xpo sur e | None wh | en use | d iı | n dilu | ted form as d | irected. Concentrated solution |
| may cause ski | in cha | fing if h | <u>yperse</u> | nsi | tive. | • | |
| Emergency and F | irst Ai | d Procedure | s Mate | ria | 1 is a | lkaline. Inge | stion: Do not induce vomiting. |
| Administer mi Skin contact: physician. | ildly : Wash | acidic s with wat | ubstan er. Ey | ce : | such a ontact | s egg white. : Flush with | Inhalation: Expose to fresh air copious amount of water. See |
| | | • | SECT | ЮИ | VI - RI | ACTIVITY DAT | Г А |
| Stobility | Unsta | oble | | Сь | nditions | to Avoid | |
| | Stabl | e | χ | | | | |
| Incomposability (| Materia | als to avoid |) | | N | ONE KNOWN | . • |
| Hazardous Decon | | | | | N | ONE KNOWN | |
| Hazardous | · I | May Occur | | | | Avoid | |
| Polymerization | | Will Not Oc | cur | | . х | | |
| | | | | | | | |
| | | SEC. | TION V | | SPILI (| OR LEAK PROC | CEDURES |
| | ` | | | | | | |
| Steps to be Take | | | | | | leo | : |
| Dilute | with | water and | <u>clean</u> | up. | • | - | |
| w . D. Th | | Unconta | minata | | olutio | may bo dilu | tod with sufficient |
| | | | | | | | ted with sufficient |
| | | | | | | ulations. | • |
| аррітсавте | 100 | | | | | | |
| | | SECTION | VIII - S | SPE | CIAL P | ROTECTION IN | FORMATION |
| Respiratory Prote | ction (| Specify type | e) NA | | · | | |
| Ventilation | Local | Exhaust | Acce | ptal | ble | | Special |
| Mechanical (General) | | | | Other | | | |
| Protective Gloves | s Yes, | Especial Sitivity | iy it i is su : | nype spec | ersen- | Eye Protection | Goggles |
| Other Protective. | | | | | · | | |
| | | S | ECTION | ł IX | - SPEC | IAL PRECAUTI | ONS |
| Precautions to be | Taken | in Handling | g and St | oring | 9 | Material ca | n be stored outside |
| O.I. D: | | None | | | | | |

Judgements as to the suitability of information herein for the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this information, but METALUBE CORPORATION, extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of this information for any purchaser's use or for any consequence of its use.

Material is freezable

89/11/99

MATERIAL SAFETY DATA SHEET CASTROL INDUSTRIAL HEST INC.

5511 DISTRICT BOULEVARD, LOS ANGELES, CALIFORNIA 90040 PHONE (213) 771 - 7000

SECTION I

TRADE NAME

PRODUCT NAME:

CASTROL HYSPIN R & O OIL 220

HAZARD CLASS:

SECTION II

HAZARDOUS INGREDIENTS

OTHER THAN THE INGREDIENTS LISTED TO THE RIGHT, THIS PRODUCT CONTAINS NO OTHER INGREDIENTS NOW KNOWN TO BE HAZARDOUS AS DEFINED IN OSHA 29 CFR 1910.1000 (SUB-PART Z), OSHA 29 CFR 1910. 1200, AND THE CALIFORNIA GENERAL INDUSTRY SAFETY ORDER 5194.

INGREDIENTS PERGEET CAS NO. HAZARD SEVERELY SOLVENT 64742-65-0 30-50 TLV=5MG/M3 TREATED OIL SEVERELY SOLVENT 64742-57-0 50-70 TLV=5MG/M3 TREATED OIL

SECTION III

PHYSICAL DATA

BOILING POINT (DEGREES F): +500 F SPECIFIC GRANITY(H20=1): 0.89

UAPOR DENSITY(AIR=1): UNKNOWN

X VOLATILES BY VOLUME: NEGLIGIBLE.

MELTING POINT: UNKNOWN

VAPOR PRESSURE(HMH9): NEGLIGIBLE AT ROOM TEMP.

SOLUBILITY IN H20, X BY HI. INSOLUBLE

EVAPORATION RATE(BUTYL ACETATE=1): NEGLIGIBLE

DH: N/A

APPEARANCE AND ODOR: AMBER, SLIGHT DILY ODOR

SECTION IU

FIRE AND EXPLOSION DATA

FLASH POINT (COC): 425 F FLAMMABLE LIMITS IN AIR X BY VOLUME:

FIRE POINT (COC):

LOWER - UNKNOWN

UPPER - UNKNOWN

EXTINGUISHING MEDIA:

CO2, FOAM, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: TREAT AS MINERAL OIL FIRE

UNUSUAL FIRE AND EXPLOSION HAZARD: NONE

SECTION U

HEALTH HAZARD INFORMATION

INGREDIENTS LISTED AS CARCINOGENS BY NTP, IARC, OR OSHA: HONE.

ROUTES OF EXPOSURE AND EFFECTS OF OVEREXPOSURE

INHALATION: ILU FOR PRODUCT NOT ESTABLISHED. REFER TO HAZARDOUS MATERIALS LIST FOR INGREDIENT TLU'S. PRODUCT NOT EXPECTED TO CAUSE RESPIRATORY TRACT TRRITATION. SKIN CONTACT: CONTINUED CONTACT MAY CAUSE TRRITATION. SKIN ABSORPTION: SKIN ABSORPTION IS NOT EXPECT TO OCCUR.

EYE CONTACT: WILL CAUSE EYE IRRITATION.

INCESTION: ORAL LOSO FOR THIS PRODUCT HAS NOT BEEN ESTABLISHED; DO NOT INCEST. MEDICAL CONDITIONS AGGREVATED BY COVERENPOSURE TO PRODUCT? NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH EYES WITH WATER FOR 15 MINUTES: CONSULT A PHYSICIAN.
SKIN: WASH EXPOSED AREAS WITH SOAP AND WATER.
INHALATION: IF IRRITATION OCCURS, REHOVE TO FRESH AIR AREA AND AVOID FURTHER
INHALATION

INGESTION: CONSULT A PHYSICIAM. DO NOT INDUCE UDMITING.

PAGE 2

CASTROL HYSPIN R & 0 OIL 220

SECTION U1

REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: NONE, PRODUCT IS STABLE UNDER NORMAL CONDITIONS. INCOMPATIBILITY: STRONG OXIDIZERS
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON

CONSITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: THIS PRODUCT WILL NOT POLYMERIZE.

SECTION VII

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN FOR PRODUCT SPILLS AND DISPOSAL

RECOVER FREE LIQUID. KEEP PETROLEUM PRODUCTS
OUT OF STREAMS AND WATERWAYS BY DIKING OR
IMPOUNDING. ADVISE AUTHORITIES IF PRODUCT HAS
ENTERED OR MAY ENTER SEWERS, WATERCOURSES OR
EXTENSIVE LAND AREAS. ADD ABSORBENT TO SPILL &
VENTILATE ENCLOSED AREAS. INCINERATE ABSORBED
MATERIAL. DISPOSE OF FREE LIQUID BY INCINERATION OR THROUGH AN OIL RECLAIM SERVICE.

SECTION VIII

SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS: IF MISTING OCCURS, PROVIDE LOCAL VENTILATION.

SPECIFIC PERSONAL RESPIRATORY EQUIPMENT: IF EXCESSIVE MISTING OCCURS, OR IF ASSOCIATED TLU IS EXCEEDED, PROVIDE NIGH APPROVED RESPIRATORY EQUIPMENT WITH TC-21C-XXX CARTRIDGE COMBINATION

EYES: FACE SHIELD OR GOGGLES. GLOVES: IMPERVIOUS IF DESIRED.

OTHER CLOTHING AND EQUIPMENT: NONE REQUIRED.

PROTECTIVE MEASURES FOR REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT: HEAR GLOVES AND PROTECTIVE EYEMEAR AT ALL TIMES DURING EQUIPMENT DECONTAMINATION OR REPAIR.

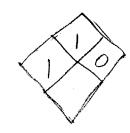
SECTION IX

SPECIAL PRECAUTIONS

AVOID CONTACT HITH EYES AND BREATHING MISTS. WASH CONTAMINATED CLOTHING BEFORE REUSE. DO NOT TAKE INTERNALLY, KEEP DRUMS CLOSED WHEN NOT IN USE.

PREPARED BY: A.LUM

DATE: OCT. 01, 1988



U.S. DEPARTMINT OF LABOR Occupational Safety and Health Administration

Form Approved QMB No. 44-R3387

MATERIAL SAFETY DATA SHEET

Required under USD1. Safety and heighth Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1918, 1917).

| Shipbuilding, | and S | hipbrenki | (29 CFR 1915, 1916, 1917) | | |
|--|---------------------------|--|--|----------------|----------------|
| | | SEC | PONT | | |
| MANUFACTURER'S NAME Stinnes-Western Chemical Corpo ADDRESS (Number, Street, City, State, and 2/P Co. 3270 E. Washington Blv. CHEMICAL NAME AND SYNONYMS 1.1.1 Trichloroethane; Menter Chemical Family Halogenated Hydrocarbous | cari (2) (2) (hy | Ang, | EMERGENCY TELEPHO (213) 269-019 | | |
| SECTION | | ****************** | OUS INGREDIENTS | | |
| PAINTS, PRESERVATIVES, & SOLVENIS | 1 | TEN | 4 4 - Marie | | |
| PIGMENTS | | LUneva | ALLOYS AND METALLIC COATINGS | * | TLV (Units) |
| CATALYST | | | RLLOYS | | |
| VEHICLE | - | n nain | METALLIC COATINGS | - | |
| SOLVENTS | 100 | 2510 | TILLED METAL | | |
| ADDITIVES | | | ELUS COATING OR CORE FLUX | | |
| OTHERS | | | 14 | | |
| HAZARDOUS MIXTURES | i OF C | THERIO, | SADS, SOLIDS, OR GASES | | TLV |
| | | en more sounds | 14- | * | (Units) |
| | 414 F 104 F 14 | | , n | + | |
| | | to the state of th | | | |
| | | tree strongs | | +++ | |
| | | | agus de la companya d | | |
| SEC | | | YSICAL DATA | | |
| | 4 | | SPECIFIC GRAVITY (H10=1) | 1. | . 31 |
| VAPOR PRESSURE (mm Hg.) | · | | HERCENT, VOLATILE | 100 |) |
| VAPOR DENSITY (AIR-1) | | 4,34 | HVAPORATION RATE | 0 | .35. |
| SOLUBILITY IN WATER | leg. | Ligipat | Molecular Weight | 132 | |
| AFFEARANCE AND ODORClear, color | ies | s I king | d; ether-like odor | | |
| SECTION IV | FIRE | ANE | PLOSION HAZARD DATA | · | |
| RLASH POINT (Method used) None (Tax, open or closed) | | | FLAMMABLE LIMITS Lei | | Uel |
| EXTINGUISHING MEDIA Mater dry chemical or rac SPECIAL FIRE FIGHTING PROCESURES Wear pressure demand self | בענום | diaz. | sie si breathing apparatus for | DOS | sible |
| exposure to hydrogen chier | ide | នកជំ | posgene. | | Nachalduk Te |
| UNUSUAL FIRE AND EXPLOSION HAZAROS Vapors can be ignited by h | | , | · · · · · · · · · · · · · · · · · · · | | |
| decompose or burn to form | n ski | rozen | ahloride and traces of phe | usgei Usgei | 10. |

PAGE (1) 4/6/83----bl

(Continued on Appress side)

Form OSHA-20

| | SECTION | V - HE | H HAZARD | DATA |
|---|--|--|-----------------------|--|
| THRESHOLD LIMI | 350 ppm ~~ 8- | -houx | (OSHA | 29 CFR 1910 1000) |
| Loss of co | exposure pordination and ec | uilibr | im to act | ual unconsciousness, and |
| | | | | |
| Move to fr | esh air use acti | ficia. | and and t | anks. on if breathing has stoppe |
| Administer | oxvoen afrom her | A Character | <u>espiraci</u> | on ir breathing has stoppe |
| ADRENALINI |) Call physics | THE LIVE LANGE | Mas been | restored. (NEVER ADMINISTE |
| | A COLL PHYSICAL | 1. 【1]登 藏。 | hald not | administer adrenalin). |
| | SECTIO | N VI Bu | ACTIVITY D | ATA |
| STABILITY | UNSTABLE | COMBITIES AVELLE | O AVOID | es, hot glowing surfaces |
| | STABLE | and 😿 : | octric are | es, not glowing surfaces |
| Avoid mixi | ' (Materials la avoid) | | | 1 |
| MAZARDOUS DECO | MPOSITION PRODUCTS HC1 and pos | sible : | Baces of | the or oxidizing materials |
| HAZARDOUS | MAY OCCUR | | ONDITIONS TO | Avoid |
| POLYMERIZATION | WILL NOT DECUM | · · · · · · · · · · · · · · · · · · · | | |
| | | en er skrivarer i Nille er g | | |
| | | and the second second second second | provide the second | |
| 5750¢ 70 0¢ 6 | SECTION VII | SPILL C | LEAK PRO | CEDURES |
| provide ma | N IN CASE MATERIAL IS RELA X I MUM Vent) LA CION | Aseထိုက်၏ ရှိခင် ပိုက်ချင် | Mersonne | ately evacuate area and equipped with proper e allowed in area. Collect |
| respirator | y and skin/eye pr terial on sawdust | otectible | should | e allowed in area. Collect |
| containers maintain v | for disposal Thentilation until | en Tilk | area wit | e allowed in area. Collect nd sweep into clased h plenty of water and ated contact local waste |
| WASTE DISPOSAL N | EPA approved | include | ation or | contact local waste |
| | disposal coa | tractmy. | | |
| | | e en en marige . | | |
| | CECTION. | - 10 *********************************** | | |
| RESPIRATORY PRO | SECTION VIII SE | PECIAL WH | OTECTION IN | FORMATION |
| V. S. T. M. A. W. L. W. | TECTION TSpecify Input Frest | <u>។ ខារក</u> គេ | ks. | |
| VENTILATION | MECHANICAL Regular Sulf f | in the state of th | | SPECIAL |
| PROTECTIVE GLOV | Workelaca ecomposition | mi man march | TT 12 | OTHER |
| polyvinyl a | ^{Es} polyethylene, acopr lcobol | ene or | Splash-proc | f glasses or goggles |
| Neoprene apro | n, safety shoes, eye | | | 0.00 |
| | | ة . رأ مهر المستنسسات | | |
| PRECAUTIONS TO B | SECTION I | X SPEC | AL PRECAUT | TONS |
| Store in co | ool well-ventilate | ed Play | When o | peningremove bung SLOWLY. |
| THER PRECAUTIO | | A Altrovage read a page of the | | |
| Do not breath | e fumes. Wear prote | stiye.u., | ching. | |
| | andrews and a few places and a stage of the stage of the | con to de the major or come frage in the | · , , ,,,, | |
| PAGE (2) | | | | Form OSHA-20 |
| # O 8 W1 KAO | | | | r driir OshiA-20 |

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Rev. May 72

MATERIAL SAFETY DATA SHEET INDUSTRIAL HEST INC

89/11/98

5511 DISTRICT BOULEUARD, LOS ANGELES, CALIFORNIA 90040 PHONE (213) 771 - 7000

SECTION I TRADE NAME PRODUCT NAME: CASTROL HYSPIN AU 58 OIL HAZARD CLASS: SECTION II HAZARDOUS INGREDIENTS OTHER THAN THE INGREDIENTS LISTED TO THE RIGHT, THIS PRODUCT CONTAINS NO OTHER INGREDIENTS NOW KNOWN TO PERSENT INGREDIENTS CAS NO. SEVERELY TREATED 64742-54-7 70-100 TLV=5MG/M3 BE HAZARDOUS AS DEFINED IN MINERAL OIL OSHA 29 CFR 1910.1000 (SUB-PART Z), OSHA 29 CFR 1910. 1200, AND THE CALIFORNIA GENERAL INDUSTRY SAFETY ORDER 5194. SECTION III PHYSICAL DATA BOILING POINT(DEGREES F): +500 F MELTING POINT: UNKNOWN SPECIFIC GRAUITY(H20=1): Ø. 87 WAPOR PRESSURE(man9): NEGLIGIBLE AT ROOM TEMP. URFOR DENSITY(AIR=1): UNKNOWN SOCUBILITY IN H20, X BY NT. INSOLUBLE Z VOLATILES BY VOLUME: NEGLIGIBLE EVAPORATION RATE(SUTYL ACETATE=1): NEGLIGIBLE pH: N/A APPEARANCE AND ODDR: LIGHT AMBER, SLIGHT DILY ODDR SECTION IV FIRE AND EXPLOSION DATA 400 F FLASH POINT (COC): FIRE POINT (COC): FLAMMABLE LIMITS IN AIR X BY VOLUME: LOUER - UNENOUN UPPER - UNKNOUN EXTINGUISHING MEDIA: CO2, FOAM, DRY CHEMICAL SPECIAL FIRE FIGHTING PROCEDURES: TREAT AS MINERAL OIL FIRE UNUSUAL FIRE AND EXPLOSION HAZARD: NONE SECTION U HEALTH HAZARD INFORMATION INGREDIENTS LISTED AS CARCINOSENS BY MIP, TARC, OR OSHA: MOME. ROUTES OF EXPOSURE AND EFFECTS OF OVEREXPOSURE

INHALATION: TLU FOR PRODUCT NOT ESTABLISHED. REFER TO HAZARBOUS MATERIALS LIST FOR INGREDIENT TLU'S, PRODUCT NOT EMPSCIED TO CHUSE RESPIRATORY TRACT IRRITATION. SKIN CONTACT: CONTINUED CONTACT HAY CAUSE IRRITATION.

SKIN ABSORPTION: SKIN ABSORPTION IS NOT EXPECT TO SCOUR.

EYE CONTACT: WILL CAUSE EYE IRRITATION.

INGESTION: ORAL LOSO FOR THIS PRODUCT HAS NOT SEEN COTABLISHED. OF GOT INGEST. HEDICAL CONDITIONS AGGRECATED BY QUEREMPOSOFE IN MADDUCTY NEWS KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH EYES WITH NATER FOR 10 MINUTES: COMSOLE A PHYSICIAN. SKIN: WASH EMPOSED AREAS WITH SOAP AND MATER.

INHALATION: IF IRRITATION OCCURS, REMOVE TO PRESSY ALR ARED AND AUGID FURTHER INHALATION

INGESTION: CONSULT A PHYSICIAN,

PACE 2

CASTROL HYSPIN AN 48 OIL

SECTION V1

REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: NONE, PRODUCT IS STABLE UNDER NORMAL CONDITIONS. INCOMPATIBILITY: STRONG OXIDIZERS HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYHERIZATION: THIS PRODUCT WILL NOT POLYMERIZE.

SECTION VII

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN FOR PRODUCT SPILLS AND DISPOSAL

RECOVER FREE LIQUID. KEEP PETROLEUM PRODUCTS OUT OF STREAMS AND WATERWAYS BY DIKING OR IMPOUNDING. ADVISE AUTHORITIES IF PRODUCT HAS ENTERED OR MAY ENTER SEWERS, WATERCOURSES OR EXTENSIVE LAND AREAS. AND ABSORBENT TO SPILL & VENTILATE ENCLOSED AREAS. INCINERATE ABSORBED MATERIAL. DISPOSE OF FREE LIQUID BY INCINERA-TION OR THROUGH AN DIL RECLAIM SERVICE.

SECTION VIII

SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS: IF MISTING OCCURS, PROVIDE LOCAL VENTILATION.

SPECIFIC PERSONAL RESPIRATORY EQUIPMENT: IF EXCESSIVE HISTING OCCURS, OR IF ASSOCIATED

ILV IS EXCEEDED, PROVIDE NIGSH APPROVED

RESPIRATORY EQUIPMENT WITH IC-21C-XXX

CARTRIDGE COMBINATION

EYES: FACE SHIELD OR GOGGLES. GLOVES: IMPERVIOUS IF DESIRED.

OTHER CLOTHING AND EQUIPMENT: NOME REQUIRED.

PROTECTIVE MEASURES FOR REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT: MEAR GLOVES AND PROTECTIVE EYEMEAR AT ALL TIMES DURING EQUIPMENT DECONTAMINATION OF REPAIR.

SECTION IX

SPECIAL PRECAUTIONS

AUGID CONTACT WITH EYES AND BREATHING MISTS. WASH CONTAMINATED CLOTHING BEFORE REUSE. DO NOT TAKE INTERNALLY, KEEP DRUMS CLOSED WHEN NOT IN USE.

PREPARED BY: A.LUM

DATE: 001, 01, 1988

MATERIAL SAFETY DATA SHEET CASTROL INDUSTRIAL HEST INC

09/11/98

5511 DISTRICT BOULEVARD. LOS ANGELES, CALIFORNIA 90040 PHONE (213) 771 -7000

SECTION I TRADE NAME PRODUCT NAME: CASTROL HYSPIN AW 32 OIL HAZARD CLASS: SECTION 11 HAZARDOUS INGREDIENTS OTHER THAN THE INCREDIENTS INGREDIENTS LISTED TO THE RIGHT, THIS CAS NO. PERCENT PRODUCT CONTAINS NO OTHER INGREDIENTS NOW KNOWN TO SEVERELY TREATED 64742-54-7 70-100 TLV=5MG/M3 BE HAZARDOUS AS DEFINED IN MINERAL DIL OSHA 29 CFR 1910.1000 (SUB-PART 2), OSHA 29 CFR 1910. 1200, AND THE CALIFORNIA GENERAL INDUSTRY SAFETY ORDER 5194. SECTION III PHYSICAL DATA BOILING POINT (DEGREES F): +500 F MELTING POINT: UNKNOUN SPECIFIC GRAVITY(H20=1): **9**. 86 MAPOR PRESSURE(HHH9): NEGLIGIBLE AT ROOM TEMP. VAFOR DENSITY(AIR=1): UNKNOWN SOLUBILITY IN H20, X BY MT. INSOLUBLE N UOLATILES BY UOLUHE: NEGLIGIBLE EVAPORATION RATE(BUTYL ACETATE=1): NEGLIGIBLE pH: N/A APPEARANCE AND ODOR: LIGHT AMBER, SLIGHT OILY DOOR SECTION IV FIRE AND EXPLOSION DATA FLASH POINT (COC): 390 F FIRE POINT (COC): --FLAMMABLE LIMITS IN AIR X BY VOLUME: . LOHER - UNKNOWN UPPER - UNKNOWN EXTINGUISHING MEDIA: CO2, FORM, DRY CHEMICAL SPECIAL FIRE FIGHTING PROCEDURES: TREAT AS MINERAL OIL FIRE UNUSUAL FIRE AND EXPLOSION HAZARD: NONE SECTION U HEALTH HAZARO INFORMATION INGREDIENTS LISTED AS CARCINOGENS BY HTP, IARC, OR OSHA: NONE. ROUTES OF EXPOSURE AND EFFECTS OF OVEREXPOSURE

INHALATION: ILU FOR PRODUCT NOT ESTABLISHED. REFER TO HAZARDOUS MATERIALS LIST FOR INGREDIENT ILU'S. PRODUCT NOT EXPECTED TO CAUSE RESPIRATORY TRACT IRRITATION. SKIN CONTACT: CONTINUED CONTACT MAY CAUSE IRRITATION. SKIN ABSORPTION: SKIN ABSORPTION IS NOT EXPECT TO OCCUR.

EYE CONTACT: WILL CAUSE EYE IRRITATION.

INGESTION: ORAL LOSO FOR THIS PRODUCT HAS NOT BEEN ESTABLISHED; DO NOT INGEST. HEDICAL CONDITIONS AGGREVATED BY OVEREXPOSURE TO PRODUCT? NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH EYES WITH WATER FOR 15 MINUTES; CONSULT A PHYSICIAN. SKIN: WASH EXPOSED AREAS WITH SOAP AND WATER.

IF IRRITATION OCCURS, REMOVE TO FRESH AIR AREA AND AVOID FURTHER INHALATION INHALATION:

INGESTION: CONSULT A PHYSICIAN.

PACE 2

CASTROL HYSPIN AW 32 OIL

SECTION VI

REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: HONE, PRODUCT IS STABLE UNDER NORMAL CONDITIONS.

INCOMPATIBILITY: STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: THIS PRODUCT WILL NOT POLYMERIZE.

SECTION VII

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN FOR PRODUCT SPILLS AND DISPOSAL

RECOVER FREE LIQUID. KEEP PETROLEUM PRODUCTS OUT OF STREAMS AND WATERWAYS BY DIKING OR IMPOUNDING. ADVISE AUTHORITIES IF PRODUCT HAS ENTERED OR ANY ENERS SEWERS, WATERCOURSES OR EXTENSIVE LAND AREAS. ADD ABSORBENT TO SPILL 8 VENTILATE ENCLOSED AREAS. INCINERATE ABSORBED MATERIAL. DISPOSE OF FREE LIQUID BY INCINERATION OR THROUGH AN OIL RECLAIM SERVICE.

SECTION VIII

SPECIAL PROTECTION IMPORMATION

VENTILATION REQUIREMENTS: IF MISTING OCCURS, PROVIDE LOCAL VENTILATION.

SPECIFIC PERSONAL RESPIRATORY EQUIPMENT: IF EXCESSIVE HISTING OCCURS, OR IF ASSOCIATED TLU IS EXCEEDED, PROVIDE NICH APPROVED RESPIRATORY EQUIPMENT WITH TC-21C-XXX

CARTRIDGE COMBINATION

EYES: FACE SHIELD OR GOGGLES. GLOVES: IMPERVIOUS IF DESIRED.

OTHER CLOTHING AND EQUIPMENT: NONE REQUIRED.

PROTECTIVE MEASURES FOR REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT: MEAR GLOVES AND PROTECTIVE EYEMEAR AT ALL TIMES DURING EQUIPMENT DECONTAMINATION OR REPAIR.

SECTION IX

SPECIAL PRECAUTIONS

AUDID CONTACT WITH EYES AND BREATHING MISTS. WASH CONTAMINATED CLOTHING BEFORE REUSE. DO NOT TAKE INTERNALLY, KEEP DRUMS CLOSED WHEN NOT IN USE.

PREPARED BY: A.LUH

DATE: 001, 01, 1938

MATERIAL SAFETY DATA SHEET

09/11/90

5511 DISTRICT BOULEVARD, LOS ANGELES, CALIFORNIA 90040 PHONE (213) 771 - 7000

| SECTION I | TRADE NAME | | | |
|--|-------------------------------------|----------------------------------|--------------------------|--|
| PRODUCT NAME: KLE HAZARO CLASS: OSHA:CORROSIVE, | EN 0325 CLEANER NA | #1740 | | a nama ama anda baba amb ama atau ama agan anan ag |
| SECTION II | HAZARDOUS INGREDIENT | | * *** *** *** *** | . And have made and had some that some any any any |
| OTHER THAN THE INGREDIENTS LISTED TO THE RIGHT, THIS PRODUCT CONTAINS NO OTHER | INGREDIENTS | | PERCEN | т назако |
| INGREDIENTS NOW KNOWN TO BE HAZARDOUS AS DEFINED IN | POTASSIUM HYDROXIDE | 1310-58-3 | 5-10 | PEL(C)=2MG/M3 |
| OSHA 29 CFR 1910.1000 (SUB- PART 2), OSHA 29 CFR 1910. 1200, AND THE CALIFORNIA GENERAL INDUSTRY SAFETY ORDER 5194. | MONDETHANDLAMINE | | | - 11 U(() \= DMC /MO - |
| SECTION III | PHYSICAL DATA | | | 10 THE SET SET SET OF THE SET SET OF THE SET |
| BOILING POINT(DEGREES F): 212F | | | | ب سند. بیوب سید ایک ایک هیک شاه ایک |
| SPECIFIC GRAVITY(H20=1): 1.15 | NECTING POINT: UAPOR PRESSURFOR | NHOY HWE NHOY HWE | MOTOL | |
| DHEOR DENSITY(AIR=1): UNKNOWN | SOLUBILITY IN HE | OVE BA RL | 1007 | |
| X VOLATILES BY VOLUME: 55-65 pH: 12.5 | EUAPORATION RATE | CBUTYL ACET | AT E=1): | UNKNOWN |
| APPEARANCE AND ODOR: LIGHT AMBER | LIQUID; MILD ODOR | | | • |
| SECTION IN FIR | PE ANA EYELDETON DAT | | | |
| | | | | |
| FLASH POINT (COC): NONE FLAMMABLE LIMITS IN AIR K BY VOLU EXTINGUISHING MEDIA: CO2, FOAM, SPECIAL FIRE FIGHTING PROCEDURES: UNUSUAL FIRE AND EXPLOSION HAZARD | URY CHEMICAL USE SELE-CONTAINED BOS | | | DHM |
| SECTION U HEAL | TH HAZARO INFORMATI | DN | | |
| INGREDIENTS LISTED AS CARCINOGENS | BY NIP, IARO, OR OSHO. | NONE. | | are findly from which from which when region while very requir |
| HOUTES OF EXPOSURE AND EFFECTS OF | DUEBERROCHET | | | |
| INHALATION: ILU FOR PRODUCT NOT INGREDIENT TLU'S, PRODUCT SKIN CONTACT: CONTINUED CONTACT SKIN ABSORPTION: SKIN ABSORPTION EYE CONTACT: WILL CAUSE EYE IRK | N IS WOT EXPENT IN OCCUM | HAZARDOUS HI ESPIRATORY S. | ATERIALS TRACT I | LIST FOR RRITATION. |
| INGESTION: ORAL LOSO FOR THIS PROFEDED BY | RODUCT HAS NOT BEEN ESTO | BLISHED; DO | NOT IN | GEST . |

EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH EYES WITH WATER FOR 15 MINUTES: CONSULT A PHYSICIAN. SKIN: MASH EXPOSED AREAS WITH SOAP PHD WATER.

MEDICAL CONDITIONS AGGREVATED BY QUEREXPOSURE TO PRODUCT? NONE KNOWN.

INHALATION: IF IRRITATION OCCURS, REPOWE TO FRESH AIR AREA AND AUGID FURTHER INHALATION

INGESTION: CONSULT A PHYSICIAN.

ASE P

KLEEN 3625 CLUANER NA #1760

SECTION VI

READ LVII DATA

COMDITIONS CONTRIBUTING TO INSTABILITY: NOME, PRODUCT IS STABLE UPG. NORMAL COMDITIONS. INCOMPATIBILITY: CONCENTRATED MINERAL ACTOS, TIM, ZING, ALUMINUM & ALLLYS HAZARDOUS DECOMPOSITION FRODUCTS: NOWE

CONDITION CONTRIBUTING TO REFERENCE POLYMERIZATION: THIS PRODUCT WILL NOT POLYMERIZE.

SE TION UTT

SPILL OR LEAT PROCEDUPES

STEPS TO BE TAKEN FOR PRODUCT SPILLS AND DISPOSAL

NEUT PLIZE SPILLS WITH DALUTE MINERAL ACTO ON DEFLUENT 1970 MACTE DIA PROCE SYSTEM WITH MATER NOR JIBL GRADES' F CONTEMBANTS MUST BE REMOVED PRIOR TO DISPOSE ACTO-OLUM OR ALUM-POLY MERIC DEEMUL FIERS MAY LE USED.

SECTION WILL

SPECIAL PROTECTION INFORMATION

MENTILATION REQUIREMENTS: IF MISTING OCCURS, PROVIDE LOCAL MENTILATION.
SMECIFIC PERSONAL RESPIRATORY EQUIPMENT: IF EXCESSIVE HISTING OCCURS, OR IF ASSOCIATED TLD IS EXCEEDED. PROVIDE NIGHT APPROVED RESPIRATORY EQUIPMENT WITH TC-210-XXX

CARTALOGE COMBINATION

EYES: FACE SHIELD OR GOGCLAR. GLOVES: THPERVIOUS IF DESIR O.

OTHER CLOTHING AND EQUIPMENT: NOME REQUIRED.

PROTECTIVE MERGURES FOR REPAIR AND MATRIEMENCE OF CONTAMINATED FOUIPMENT: MEAR GLOVES AND PROTECTIVE EYEMEAR AT ALL TIMES DURING LOUTPHENT DECONTRANATION OR REPAIR.

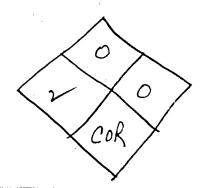
SECTION IX

SPECIAL PRECAUTION

AUGTO CONTACT WITH EYES AND BREATHING MISTS, WASH CONTAMINATED CLOTHING BEFORE REUSE. DO NOT TAKE INTERNALLY, KEEP BRUNS CLOSED WISH NOT IN USE.

PREPARED BY: JUAN URIBE

- DATE: FEBRUARY 00, 1990



MATERIAL SAFETY DATA SHEET CASTROL INJUSTRIAL HEST INC.

5511 DISTRICT BOULEVARD, LOS ANGELES, CALIFORNIA 90040 PHONE (213) 771 - 7000

SECTION I TRADE NAME PRODUCT NAME: CASTROL W 329 CUTTING FLUID HAZARD CLASS: SECTION II HAZARDOUS INGREDIENTS OTHER THAN THE INGREDIENTS LISTED TO THE RIGHT, THIS INGREDIENTS CAS NO. PRODUCT CONTAINS NO OTHER PERGERT HAZARD INGREDIENTS NOW KNOWN TO SEVERELY REFINED 64741-96-4 40-60 TLV=5MG/M3 PETROLEUM OIL PEL=5MG/M3 BE HAZARDOUS AS DEFINED IN OSHA 29 CFR 1910.1000 (SUB-PART Z), OSHA 29 CFR 1910. 1200, THE NATIONAL FIRE PEL=5MG/M3 PROTECTION ASSOCIATION LIST OF HAZARDOUS SUBSTANCES, AND THE CALIFORNIA GENERAL INDUSTRY SAFETY ORDER 5194. CHLORINATED PARAFFIN 68920-70-7 10-20 X THE SPECIFIC CHLORIMATED PARAFFIN INCLUDED IN THIS PRODUCT HASN'T BEEN TESTED OR PROVEN TO CAUSE ADVERSE HEALTH EFFECTS OTHER CHLORIMATED PARIFFINS HAVE BEEN TESTED AND SHOW EVID-IDENCE OF CARCINOGICITY IN LABORATORY ANIMALS VIO INGESTION. SECTION III PHYSICAL DATA BOILING POINT (DEGREES F): +500F MELTING POINT: UNKNOWN SPECIFIC GRAVITY(H20=1): 0.986 VAPOR PRESSURE(HHH9): NEG @ 70F UAPOR DENSITY(AIR=1): UNKNOWN SOLUBILITY IN H20, X BY HT. N VOLATILES BY VOLUME: NEGLIGIBLE EMULSIFIES EVAPORATION RATECBUTYL ACETATE=1>: NEGLIGIBLE pH: 9.2@5% APPEARANCE AND ODOR: CLEAR AMBER LIQUID; MILD ODOR SECTION IU FIRE AND EXPLOSION DATA FLASH POINT (COC): >300F FIRE POINT (COC): --FLAMMABLE LIMITS IN AIR X BY VOLUME: LOHER - UNKNOWN EXTINGUISHING MEDIA: CO2, FOAM, DRY CHEMICAL UPPER - UNKNOWN SPECIAL FIRE FIGHTING PROCEDURES: USE SELF-CONTAINED BREATHING EQUIPMENT UNUSUAL FIRE AND EXPLOSION HAZARD: NONE KNOWN SECTION U HEALTH HAZARD INFORMATION INGREDIENTS LISTED AS CARCINOGENS BY NTP, IARC, OR OSHA: NONE. ROUTES OF EXPOSURE AND EFFECTS OF OVEREXPOSURE INHALATION: ILU FOR PRODUCT NOT ESTABLISHED. REFER TO HAZARDOUS MATERIALS LIST FOR INGREDIENT TLU'S, PRODUCT NOT EXPECTED TO CAUSE RESPIRATORY TRACT IRRITATION. SKIN ABSORPTION: SKIN ABSORPTION IS NOT EXPECT TO OCCUR. EYE CONTACT: WILL CAUSE EYE IRRITATION. INGESTION: ORAL LD50 FOR THIS PRODUCT HAS NOT BEEN ESTABLISHED; DO NOT INGEST. MEDICAL CONDITIONS AGGREVATED BY OVEREXPOSURE TO PRODUCT? NONE KNOWN. EMERGENCY AND FIRST AID PROCEDURES EYES: FLUSH EYES WITH WATER FOR 15 MINUTES; CONSULT A PHYSICIAN. SKIN: WASH EXPOSED AREAS WITH SOAP AND WATER. INHALATION: IF IRRITATION OCCURS, REMOVE TO FRESH AIR AREA AND AVOID FURTHER INHALATION INGESTION: CONSULT A PHYSICIAN.

MATERIAL SAFETY DATA SHEET INDUSTRIAL HEST INC.

09/11/90

5511 DISTRICT BOULEWARD. LOS ANGELES, CALIFORNIA 90040 PHONE (213) 771 - 7686

TRADE NAME PRODUCT NAME: 628 CLEAR ATF HAZARD CLASS: SECTION II HAZARDOUS INGREDIENTS OTHER THAN THE INGREDIENTS LISTED TO THE RIGHT, THIS INGREDIENTS CAS NO. PERCENT PRODUCT CONTAINS NO OTHER INGREDIENTS NOW KNOWN TO SEVERELY SOLVENT 64741-88-4 70-100 TLV=5MG/M3 BE HAZARDOUS AS DEFINED IN TREATED OIL OSHA 29 CFR 1910.1000 (SUB-PART Z), OSHA 29 CFR 1910. 1200, AND THE CALIFORNIA GENERAL INDUSTRY SAFETY

SECTION III

ORDER 5194.

PHYSICAL DATA

BOILING POINT(DEGREES F): +2750 SPECIFIC GRAUITY(H20=1): 2. 38

UAPOR DENSITYCAIR=1>: UNKNOWN

X VOLATILES BY WOLUME: NEGLIGIBLE

MELTING POINT: UNKNOUN

VAPOR PRESSURE(#MH9): LESS THAN Ø. 1 MMHG

SOLUBILITY IN H20, X BY WT. INSOLUBLE

EVAPORATION RATE(BUTYL ACETATE=1): NEGLIGIBLE

pH: N/A

APPEARANCE AND ODOR: AMBER FLUID; SLIGHT DILY DOOR

FIRE AND EXPLOSION DATA

FLASH POINT (COC): -302F FLAMMABLE LIMITS IN AIR X BY VOLUME:

FIRE POINT (COC): -LOHER - UNKNOWN

UPPER - UNKNOWN

EXTINGUISHING MEDIA: CO2, FOAM, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: USE SELF-CONTAINED BREATHING EQUIPMENT

UNUSUAL FIRE AND EXPLOSION HAZARD: NONE

SECTION U

HEALTH HAZARD INFORMATION

INGREDIENTS LISTED AS CARCINOGENS BY NTP, IARC, OR OSHA: NONE.

ROUTES OF EMPOSURE AND EFFECTS OF OVEREMPOSURE

INHALATION: TLV FOR PRODUCT NOT ESTABLISHED. REFER TO HAZARDOUS HATERIALS LIST FOR INGREDIENT TLV'S. PRODUCT NOT EXPECTED TO CAUSE RESPIRATORY TRACT IRRITATION. SKIN CONTACT: CONTINUED CONTACT MAY CAUSE IRRITATION.
SKIN ABSORPTION: SKIN ABSORPTION IS NOT EXPECT TO OCCUR.

EYE CONTACT: WILL CAUSE EYE TRRITATION.

INGESTION: ORAL LOSO FOR THIS PRODUCT HAS NOT BEEN ESTABLISHED: DO NOT INGEST. MEDICAL CONDITIONS AGGREVATED BY QUEREXPOSURE TO PRODUCT? NOME KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH EYES WITH WATER FOR 15 MINUTES, SOMBULT A PHYSICIAN. SKIN: WASH EXPOSED AREAS WITH SOAP AND WATER.

INHALATION: IF TRRITATION OCCURS, REMOVE TO FRESH AIR AREA AND AUGID FURTHER INHALATION

INGESTION: COMSULT A PHYSICIAN.

PAGE 2

628 CLEAR ATF

SECTION VI

RESCTIUITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: WONE, PRODUCT IS STABLE UNDER NORMAL CONDITIONS.

INCOMPATIBILITY: STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: THIS PRODUCT WILL NOT POLYMERIZE.

SECTION VII

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN FOR PRODUCT SPILLS AND DISPOSAL

RECOVER FREE LIGUID. KEEP PETROLEUM PRODUCTS.
OUT OF STREAMS AND WATERWAYS BY DIKING OR
IMPOUNDING. ADVISE AUTHORITIES IF PRODUCT HAS ENTERED OR MAY ENTER SEWERS, WATERCOURSES OR EXTENSIVE LAND AREAS. ADD ASSORBENT TO SPILL EXTENSIVE LAND AREAS. ADD ABSORPENT TO SPILL EVENTILATE ENCLOSED AREAS. INCINERATE ABSORBED MATERIAL. DISPOSE OF FREE LIGUID BY INCINERATION OR THROUGH AN OIL RECLAIM SERVICE.

SECTION VIII

SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS: IF HISTING OCCURS, PROVIDE LOCAL VENTILATION.

SPECIFIC PERSONAL RESPIRATORY EQUIPMENT: IF EXCESSIVE MISTING OCCURS, OR IF ASSOCIATED

TLU IS EXCEEDED, PROVIDE NIOSH APPROVED RESPIRATORY EQUIPMENT WITH TC-21C-XXX

CARTRIDGE COMBINATION

EYES: FACE SHIELD OR GOGGLES. GLOVES: IMPERVIOUS IF DESTRED.

OTHER CLOTHING AND EQUIPMENT: NOME REQUIRED.

PROTECTIVE MEASURES FOR REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT: HEAR GLOVES AND PROTECTIVE EYEMEAR AT ALL TIMES DURING EQUIPMENT DECONTAMINATION OR REPAIR.

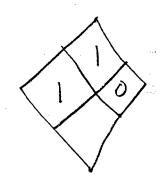
SECTION IX

SPECIAL PRECAUTIONS

AUGID CONTACT WITH EYES AND BREATHING HISTS. WASH CONTAMINATED CLOTHING BEFORE REUSE. DO NOT TAKE INTERNALLY, KEEP DRUMS CLUMED WHEN NOT IN USE.

PREPARSO BY: A. LUN

DATE: JAN. 01, 1989



A built that all also be also the last the first and the managers of

MATERIAL SAFETY DATA SHEET

Page 1 of 3

IDENTIFICATION

Nitric Acid, 38°, 40°, 42° Be Tech and Resgent Grades

Synonyms

Weak Nitric Acid

CAS Name

Nitric Acid

I.D. Nos. Codes NIOSH Registry No: QU 57750

Wiswesser Code = HN-03

Manufacturer 'Distributor

E. I. Du Pont de Nemours & Co., (Inc.)

Address

Wilmington, DE HAZARDOUS COMPONENTS

Material(s)

Nitric Acid

Reagent

PHYSICAL DATA

Boiling Point, 760 mm Ha

119-122°C (246-252°F)

Specific Gravity

1,355-1,422 @ 15.6°C (60°P) ($H_2O = 1$)

Vapor Density

1 (Air \neq 1)

% Volatiles by Vol.

100%

Form

Liquid

pH Information

Inorganic Acid

Chemical Family

CAS Registry No.

7697-37-2

Chemical Formula: HNO; (in water)

Product Information and Emergency Phone

(302) 774-2421

Transportation Emergency Phone

(800) 424-9300

Approximate %

Melting Point

 -20° to -41° C (-4° to -42°F)

Vapor Pressure

 $_{\text{tree}}$ Hg @ 25°C (77°F) = 9-10; @ 37.7°C (100°F) = 19-20 Solubility In $H_{2}O$

100%

Evaporation Rate (Butyl Acetate = 1)

 ~ 1

Odor

Colorless to light brown Acrid

Octanol/Water Partition Coefficient

FIRE AND EXPLOSION DATA

Flash Point

Method

Appearance

Clear

Autolgnition Temperature

Will not burn

Flammable Limits In Air, % by Vol.

Lower

Upper

Fire and Explosion Matards Oxidizer. Nitric acid increases combustibility and can cause ignition of organic or oxidizable materials. Fire or spillage may produce extremely toxic nitrogen oxide gases. Reaction with many metals gives flammable/explosive hydrogen gas.

Extinguishing Media: For Fires in area, use water spray to fool nitric acid tanks o

Special Fire Fighting Instructions Wear self-contained breathing apparatus and full acid protective clothing (see PROTECTION INFORMATION on back of page) where possibility of fumes or acid contact exists.

The data of the Program of the manufacture of the second that is a second information artifician herein is furnished free of charge and is based on technical date ther Ou Pont betieves to be retiable. It is intended for wee by persons having factorical shift is then but discretion and risk. Since conditions of use are outside, our control, we make no werranties, exposes his implied, and assume no liability in contection with shrules.

HAZARDOUS REACTIVITY

Instability

Releases toxic gases with heat.

Incompatibility Cyanides and sulfides. Reacts vigorously with organics (especially turpentine), exidizable inorganics, metals (especially powders), and carbides.

Decomposition

Can occur, ss above.

Polymerization

Will not occur.

HEALTH HAZARD INFORMATION

Exposure Limits OSEA 8-hour Time Weighted Average (TWA) Nitric Acid = 2 ppm, 5 mg/m³; ceiling (nitrogen dioxide) = 5 ppm, 9 mg/m³; ACGIH TLV[©] - 2 ppm, 5 mg/m³ (Nitric Acid). Routes of Exposure and Effects Liquid and vapor cause severe burns.

Harmful if inhaled. May cause delayed lung injury.

Toxic exides of mitrogen and other dangerous gases may be released when mitric actd is used.

SEE ATTACHED.

PROTECTION INFORMATION

Ventilation Use only with ventilation adequate to maintain air concentration below exposure Hait. Keep in well ventilated room. Personal Protective Equipment Generall chemical safety glasses, rubber gloves and footwear. If potential for major exposure, wear full protective clothing including rubber acid omit, hard hat and air-supplied respirator.

DISPOSAL PROCEDURES

Aguatic Toxicity

Then 96 = 100 - 10 ppm.

Spull teak or Release Keep upwind of leak; evacuate until gas has dispersed. Dike major spill Neutralize with lime or soda ash. Flush spill area with plenty of water to wastewater treatment system. Do not flush concentrated acid into sewers.

Waste Disposal: Dispose of in accordance with Federal, State & local regulations, approved, drain neutralized or dilute soid to sewer to waste tratment plant.

SHIPPING PRECAUTIONS

Transportation DOT Shipping Name - Nitric Acid (over 40%). DOT Hazard Class - oxidizer. STC Code 49 185 28. UN No. 2031. IMCO Class 8. Shipping Containers

Railroad tank cars, tank trucks.

Storage Conditions

SEE ATTACHED.

3 7 - 7 -

REFERENCES AND ADDITIONAL INFORMATION

Do not breathe vapor.

Do not get in eyes, on skin or clothing.

Wash thoroughly after handling.

For more information refer to: Du Pont Nitric Acid Storage & Handling Bulletin Du Pont Nitric Acid Data Sheet

DATE: 2/80



NITRIC ACID, 38°, 40°, 42° & REAGENT MSDS ATTACHMENT

HEALTH HAZARD INFORMATION

First Aid

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash clothing before reuse.

If inhaled, remove person to fresh air immediately. Have patient lie down and keep quiet. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

If swallowed, call a physician. Do not induce vomiting. Give large quantities of water containing any of the following: Milk of Magnesia, milk, magnesium oxide, whites of eggs, or olive oil. Avoid carbonates. Never give anything by mouth to an unconscious person.

SHIPPING PRECAUTIONS

Storage Conditions

Reep container closed. Knep out of sun and away from heat. Keep away from fire, sparks and flame. Loosen closures carefully. Mever use pressure to empty. Container must not be washed out or used for other purposes. Do not store near cyanides, sulfides, organics, metal powders, carbides, or other readily exidizable materials.

DATE: 27

GUIDE 44

NITRIC ACID OXIDIZER, UNZO31 ERG #44, 42 BE, 90 LR.

ERG90

POTENTIAL HAZARDS

HEALTH HAZARDS

Poisonous; may be fatal if inhaled, swallowed or absorbed through skin. Contact may cause burns to skin and eyes.

Fire may produce irritating or poisonous gases.

Runoff from fire control or dilution water may cause pollution.

FIRE OR EXPLOSION

May ignite other combustible materials (wood, paper, oil, etc.). Violent reaction with water.

Reaction with fuels may be violent.

Flammable/poisonous gases may accumulate in tanks and hopper cars. Runoff to sewer may create fire or explosion hazard.

EMERGENCY ACTION

Keep unnecessary people away; isolate hazard area and deny entry.

Stay upwind, out of low areas, and ventilate closed spaces before entering.

Positive pressure self-contained breathing apparatus (SCBA) and chemical protective clothing which is specifically recommended by the shipper or manufacturer may be worn. It may provide little or no thermal protection.

Structural firefighters' protective clothing is not effective for these materials.

CALL CHEMTREC AT 1-800-424-9300 FOR EMERGENCY ASSISTANCE.

If water pollution occurs, notify the appropriate authorities.

FIDE

Small Fires: Water, dry chemical or soda ash.

Large Fires: Flood fire area with water.

Move container from fire area if you can do it without risk.

Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks.

For massive fire in cargo area, use unmanned hose holder or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Fully-encapsulating, vaper-protective clothing should be worn for spills and leaks with no fire.

Do not touch or walk through spilled material; stop leak if you can do it without risk.

-Use water spray to reduce vapor; do mot get water inside container.

Small Spills: Flush area with flooding amounts of water.

Large Spills: Dike far ahead of liquid spill for later disposal.

Move victim to fresh air and call emergency medical care; if not breathing, give artificial respiration; if breathing is difficult, give oxygen.

In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.

Remove and isolate contaminated clothing and shoes at the site. Keep victim quiet and maintain normal body temperature. Effects may be delayed; keep victim under observation.

ORIGINAL

Material Safety Data Sheet



CHEVRON Thinner 350H

"SOLVENT"35

Page 1 of 7 CPS210418

TOPCO INC DBA 9803 SAN FERNANDO RD PACOIMA, CA 91331 Print Date: November 25, 1989

MATERIAL ORDERED FOR: FOB EL SEGUNDO REFINERY EL SEGUNDO, CA 90245

This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your MSDS. Discard any previous edition of this MSDS.

The Chevron MSDSs have been reformatted and expanded to provide you with useful hazard warnings and health evaluations and to facilitate your compliance with local, State and Federal regulations.

1. PRODUCT IDENTIFICATION

CHEVRON Thinner 350H

- DANGER! HARMFUL OR FATAL IF SWALLOWED
 - REPEATED AND PROLONGED BREATHING OF VAPOR OR CONTACT WITH SKIN MAY BE HARMFUL
 - MAY CAUSE SKIN IRRITATION
 - COMBUSTIBLE
 - KEEP OUT OF REACH OF CHILDREN

CHEVRON PRODUCT NUMBER(S): CPS210418 PRODUCT INFORMATION: (800)582-3835

Revision Number: 12 Revision Date: 07/30/89 MSDS Number: 000059

NDA - No Data Available NA - Not Applicable

Prepared According to the OSHA Hazard Communication Standard (29 CFR 1910.1200) by the Chevron Environmental Health Center, Inc., P.O. Box 4054, Richmond, CA 94804.

2. FIRST AID

EYE CONTACT:

No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn.

SKIN CONTACT:

Remove contaminated clothing. Wash skin thoroughly with soap and water. See a doctor if any signs or symptoms described in this document occur. Discard contaminated non-waterproof shoes and boots. Wash contaminated clothing.

INHALATION:

If any signs or symptoms as described in this document occur, move the person to fresh air. If any of these effects continue, see a doctor.

INGESTION:

If swallowed, give water or milk to drink and telephone for medical advice. DO NOT make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital. Note to Physician: Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid which can cause pneumonitis.

3. IMMEDIATE HEALTH EFFECTS

EYE CONTACT:

This substance is not expected to cause prolonged or significant eye irritation. This hazard evaluation is based on the data from similar materials.

SKIN IRRITATION:

The skin irritation potential of this substance has not been determined. However, it may be a moderate skin irritant so contact with the skin could cause prolonged (days) injury to the affected area. The degree of injury will depend on the amount of material that gets on the skin and the speed and thoroughness of the first aid treatment. Signs and symptoms may include pain or a feeling of heat, discoloration, swelling, and blistering. This hazard evaluation is based on data from similar materials.

DERMAL TOXICITY:

If absorbed through the skin, this substance is considered practically non-toxic to internal organs. This hazard evaluation is based on data from similar materials.

RESPIRATORY/INHALATION:

Signs and symptoms of central nervous system effects may include one or more of the following: headache, dizziness, loss of appetite, weakness and loss of coordination. This hazard evaluation is based on data from similar materials. Read the Additional Health Data section (12) of this document for more information.

INGESTION:

The systemic toxicity of this substance has not been determined. However,

Revision Number: 12 Revision Date: 07/30/89 MSDS Number: 000059

NDA - No Data Available NA - Not Applicable

it should be practically non-toxic to internal organs if swallowed. Because of the low viscosity of this substance, it can directly enter the lungs if it is swallowed (this is called aspiration). This can occur during the act of swallowing or when vomiting the substance. Once in the lungs, the substance is very difficult to remove and can cause severe injury to the lungs and death. This hazard evaluation is based on data from similar materials.

4. PROTECTIVE EQUIPMENT

EYE PROTECTION:

No special eye protection is usually necessary.

SKIN PROTECTION:

Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including gloves.

RESPIRATORY PROTECTION:

Wear approved respiratory protection when working with this material unless ventilation is adequate to keep airborne concentrations below recommended exposure standards.

VENTILATION:

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

5. FIRE PROTECTION

FLASH POINT: (TCC) 105F (41C) Min.

AUTOIGNITION: 254C (489F) FLAMMABILITY: 1.0 - 6.0% EXTINGUISHING MEDIA:

CO2, Dry Chemical, Foam and Water Fog.

NFPA RATINGS: Health 1; Flammability 2; Reactivity 0; Special NDA; HMIS RATINGS: Health 1; Flammability 2; Reactivity 0; Other NDA; (Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association or, if applicable, the National Paint and Coating Association, and do not necessarily reflect the hazard evaluation of the Chevron Environmental Health Center. Read the entire document and label before using this product.

FIRE FIGHTING PROCEDURES:

Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 85 F.

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Read the entire document.

Revision Number: 12 Revision Date: 07/30/89 MSDS Number: 000059

NDA - No Data Available NA - Not Applicable

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

6. STORAGE, HANDLING, AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

NDA.

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

INCOMPATIBILITY:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

SPECIAL PRECAUTIONS:

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. Keep container closed. DO NOT weld, heat or drill container. Replace cap or bung. Emptied container still contains hazardous or explosive vapor or liquid. CAUTION! Do not use pressure to empty drum or explosion may result.

7. PHYSICAL PROPERTIES

SOLUBILITY: Soluble in hydrocarbon solvents; insoluble in water.

APPEARANCE: Colorless liquid.

BOILING POINT: 325 - 404F (Range)

MELTING POINT: NA

EVAPORATION: 0.13 (BU AC=1)

SPECIFIC GRAVITY: 0.795 @ 15.6/15.6C

VAPOR PRESSURE: 2.2mm Hg @ 20C (68F) of VOC

PERCENT VOLATILE (VOLUME %): 99+% VOLATILE ORGANIC COMPOUNDS (VOC):

795 g/liter (Max.)

VAPOR DENSITY (AIR=1): 5.0 VISCOSITY: 1.046 cSt @ 37.8C MOLECULAR WEIGHT: 144 (Avg.)

8. SPILL RESPONSE AND DISPOSAL

CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300 (24 hour). SPILL/LEAK PRECAUTIONS:

Certain geographical areas have air pollution restrictions concerning the use of materials in work situations which may release volatile components to the atmosphere. Air pollution regulations should be studied to determine if this material is regulated in the area where it is to be used.

Revision Number: 12 Revision Date: 07/30/89 MSDS Number: 000059 NDA - No Data Available NA - Not Applicable Eliminate all open flame in vicinity of spill or released vapor. Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in Protective Equipment. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

DISPOSAL METHODS:

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

9. EXPOSURE STANDARDS, REGULATORY LIMITS AND COMPOSITION

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

The Chevron recommended TLV for this material is 125 ppm.

The percent compositions are given to allow for the various ranges of the components present in the whole product and may not equal 100%.

PERCENT/CAS# COMPONENT/REGULATORY LIMITS

100.0 % CHEVRON Thinner 350H

CONTAINING

DISTILLATES, HYDROTREATED LIGHT

CAS64742478

LIGHT AROMATIC SOLVENT NAPHTHA

CAS64742956

7.0 % ALKYLBENZENES CAS68515253

2.0 % 1,2,4-TRIMETHYLBENZENE
CAS95636 A toxic chemical subjection

INCLUDING

A toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SARA 302/304 RQ= POUNDS TPQ=10,000 POUNDS

2.4 % CUMENE

CAS98828 A toxic chemical subject to the reporting requirements of

Revision Number: 12 Revision Date: 07/30/89 MSDS Number: 000059

NDA - No Data Available NA - Not Applicable

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. 50ppm ACGIH TLV 50ppm OSHA PEL CERCLA 302.4 RQ=5000 POUNDS

0.8 % TRIMETHYLBENZENES CAS108678

TLV - Threshold Limit Value STEL - Short-term Exposure Limit TPQ - Threshold Planning Quantity

CPS - CUSA Product Code

RQ - Reportable Quantity CC - Chevron Chemical Company

CAS - Chemical Abstract Service Number

PEL - Permissible Exposure Limit

10. REGULATORY INFORMATION

DOT SHIPPING NAME: PETROLEUM NAPHTHA DOT HAZARD CLASS: COMBUSTIBLE LIQUID DOT IDENTIFICATION NUMBER: UN1255

SARA 311 CATEGORIES:

Immediate (Acute) Health Effects; YES l.

Delayed (Chronic) Health Effects; YES 2.

3. Fire Hazard; YES

4. Sudden Release of Pressure Hazard; NO

Reactivity Hazard; NO

WHEN A COMPONENT OF THIS MATERIAL IS SHOWN IN THIS SECTION, THE REGULATORY LIST ON WHICH IT APPEARS IS INDICATED.

MESITYLENE

02,26,28,

1,2,4-TRIMETHYLBENZENE

01,02,26,28,

CUMENE

01,02,10,14,17,21,24,26,28,

REGULATORY LISTS:

01=SARA 313 - 02=MASS RTK 03=NTP Carcinogen 04=CA Prop. 65 05=MI 406 06=IARC Group 1 07=IARC Group 2A 08=IARC Group 2B 09=SARA 302/304 10=PA RTK ll=NJ RTK 12=CERCLA 302.4 13=MN RTK 14=ACGIH TLV 15=ACGIH STEL 16=ACGIH Calculated TLV 17=OSHA PEL 18=OSHA STEL 19=Chevron TLV 20=EPA Carcinogen 23=TSCA SECT 6 RULE 21=TSCA SECT 4 22=TSCA SECT 5 SNUR 24=TSCA SECT 12 EXPORT

25=TSCA SECT 8A CAIR

26=TSCA SECT 8D REPORT 27=TSCA SECT 8E

28=Canadian WHMIS

11. PRODUCT TOXICOLOGY DATA

EYE IRRITATION:

NDA. The hazard evaluation was based on data from similar materials.

Revision Number: 12

Revision Date: 07/30/89

MSDS Number: 000059

NDA - No Data Available NA - Not Applicable

SKIN IRRITATION:

The hazard evaluation was based on data from similar materials. DERMAL TOXICITY:

The hazard evaluation was based on data from similar materials. RESPIRATORY/INHALATION:

NDA. The hazard evaluation was based on data from similar materials. INGESTION:

NDA. The hazard evaluation was based on data from similar materials.

12. ADDITIONAL HEALTH DATA

ADDITIONAL HEALTH DATA COMMENT:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Symptoms reported include fatigue, concentration difficulties, anxiety, depression, rapid mood swings, and short-term memory loss. The reports are not clear with regard to the types of solvents that may cause these symptoms, and there is controversy among scientists with regard to whether the condition exists or is caused by this type of product. Since many other diseases cause some or all of these conditions, a doctor should be consulted if any appear. Always use this material in strict accordance with the instructions on the label or in this document.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Revision Number: 12 Revision Date: 07/30/89 MSDS Number: 000059

> NDA - No Data Available NA - Not Applicable

PRODUCT-CODE

DESCRIPTION

3926 ALLAN AIRCRAFT SUPPLY

11643 VAN OWEN STREET

NORTH HOLLYWOOD CAS

r- /26 F-7318 MIRROR GRIND #5561XG HYTEC #225

END

AISER ALUMINUM

300 LAKESIDE DRIVE, OAKLAND, CALIFORNIA 94643

KACC 5656 (3/83) Front

N.A. = NOT APPLICABLE

Material Safety Data Sheet

| FARBEST CORPORATION | | Incue Date | Identification Number |
|--|--------------------------------|--|--|
| 6715 McKinley Avenue | 3 | 0-4 21 1005 | |
| Los Angeles, California | 90001-0498 | Oct 31, 1985 | FF-7318 |
| Trade Narra (Common Name or Synonym) | 30001-0436 | | |
| Hytec #225 | | Emergency Phone Number | 2101 |
| Chemical Name | | (213) 758- | |
| Hydrocarbon Mixture | | and Trade Seco | - I was a moral for the flow |
| | Mindred State of Cartes and to | and Irade Sec. | |
| | HAZARDOUS | INGREDIENTS | |
| Material or Component | <u>•</u> | CAS NUMBER | 1984-85 ACGIH TLV/TWA |
| Mineral Oil | 99 | 8012-95-1 | 5 mg/m^3 for oil mist |
| | 247 | | * 1 |
| | | | |
| | 271 (4) | | |
| | | | |
| Do not use or handle thi data sheet have been rea | s product until | safety precaution | is recommended in this |
| <u> </u> | | • | |
| The precise composition | of this product | is proprietary in | formation. A more |
| detailed disclosure will | be provided by | FARBEST CORPORATI | ON to qualified |
| medical or Industrial Hy | giene personnel | as privileged inf | ormation upon request |
| in case of need for spec | ific treatment. | | apon request |
| | | r y | |
| | PHYSICA | LDATA | A CONTRACTOR OF THE PARTY OF TH |
| Material is (Al Normal Conditions): @ 77°F (2 | 5°C) | Appearance and Odor | |
| Liquid Solid Gas Other | | Fluid with m | mineral oil odor |
| | | ridid with n | ineral oil odor |
| Addity Akainity Melting Point N | Section Com | | Vapor Pressure |
| nH = 31 3 | | ity (H2O = 1) 0.9 vater (% by weight) Negl: | igible N.D.A. |
| | | | |
| | RSONAL PROTEC | TIVE EQUIPMENT | |
| espiratory Protection | | Hands, Arms, and Body | |
| None normally need | eđ. | None normal | ly needed. |
| es and Face | | Other Clothing and Equipment | |
| Safety Glasses | | None normal | ly needed. |
| * EM | ERGENCY MEDIC | AL PROCEDURE | |
| | | oxygen if breathin | A CONTRACTOR OF THE PARTY OF TH |
| | romiting G-11 | | |
| EYES: Immediately flu | omiting. Call a | physician. | |
| physician. | wren brenty c | water for at le | east 15 minutes. Call a |
| | water followed | by soan and to-to- | |
| | | | |
| occurs, call a | physician | by soap and water | wash. If irritation |

N.D.A. = NO DATA AVAILABLE

HEALTH/SAFETY INFORMATION

| Health | Inhelation Mists may cause irritation. Ingestion May cause gastric irritation. Skin Prolonged or repeated exposure may cause skin irritation. Eyes Contact may cause irritation. Threshord turnst Value See "Hazardous Ingredients" section. | | | | | | |
|-----------------------|---|--|---|-------------------|--|--|--|
| Fire and Explosion | Flash Point(COC) 400 °F | N.D.A. °F | Flammable Limits in Air Lower N.D.A.' Upper N.D.A.' | | | | |
| Fire Expl | Untitional Fire und Explosion Hurards | None | | Do not use water. | | | |
| ity | Stability XX Stable Unstable | Incumpatibility (Materials to Avoid) O: | xidizing Mate | erials. | | | |
| Reactivity | Conditions to Avoid V | Heat, open flames, as | nd mist forma | ation. | | | |
| ď | Hazardous Decomposition Products | Carbon Monoxide and formed by incomplete | | <u>-</u> | | | |

ENVIRONMENTAL

Spili or leak procedures

It is recommended that the purchaser develop a plan which includes procedures for proper storage as well as clean-up of spills or leaks. Procedures should conform to safe practices and provide for proper recovery or disposal. Spills entering surface waters or any watercourses or sewers entering/leading to surface waters that cause a sheen must be reported to the National Response Center - Tel. # 1 (800) 424-8802. Soak up with inert absorbent and scoop into a covered container for disposal.

Waste Disposal Method*

Used or unused product should be tested to determine hazard status and disposal requirements.

'Disposer must comply with Federal, State and Local disposal or discharge laws.

ADDITIONAL INFORMATION

Avoid breathing mist.

Do not ingest.

Wash skin throughly after contact.

Keep away from extreme heat and open flames.

Launder contaminated clothing before reuse.

The information in mis MSUS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, express or implied regarding the accuracy or correctness.

The conditions or multiods of Exciding, storage, use and exposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility such expressly disclaim hability for loss, damage or exponse arising our of or in any way connected with the handling, storage, use or demonst of the conduct



D LAKESIDE DRIVE, OAKLAND, CALIFORNIA 94643

MATERIAL SAFETY DATA SHEET

| FARBEST CORPORATION 6715 McKinley Avenue Los Angeles, California 90001-0498 | August 7, 1985 | FF-5726 |
|---|---------------------------------------|--------------------------------|
| Trade Narm (Common Name or Synonym) Mirror Grind #5561XG | Emergency Phone Number (213) 758-3181 | |
| Chemical Name Mixture | Formula Proprietary and Trade Secret | DOT Identification Number N.A. |
| HAZARDOUS | INGREDIENTS | |

| Material or Component | 1. | * | CAS NUMBER | 1984-85 ACGIH TLV/TWA |
|-----------------------|----|---|------------|--------------------------|
| Ethylene Glycol | | 8 | 1072-11 | 100 (-3 |
| Sodium Nitrite | | 6 | 7632-00-0 | 100 mg/m Not Established |

Do not use or handle this product until safety precautions recommended in this data sheet have been read and understood.

The precise composition of this product is proprietary information. A more detailed disclosure will be provided by FARBEST CORPORATION to qualified Medical or Industrial Hygiene personnel as privileged information upon request in case of need for specific treatment.

| Material is (At Normal Conditi | oue): 6 | 77°F | (25°C) | | 1-1- | Appearance and Odor | |
|--------------------------------|---------|------------|-------------|----------|--------------|--------------------------------|---|
| 🗵 Liquid 🗌 Solid | ☐ Gas | Othe | er | | | Fluid with glycol | odor. |
| pH = N.A. | | ting Point | N.A. 212 | °F °F | Specific Gra | water (% by weight) Negligible | Vapor Pressure (mm Hg at 20°C) N.D.A. |

PERSONAL PROTECTIVE EQUIPMEN

| Respiratory Prote | cton | Hands, Arms, and Body |
|-------------------|-----------------------|------------------------------|
| | None normally needed. | None normally needed. |
| Eyes and Face | E | Other Clothing and Equipment |
| | Safety Glasses | None normally needed. |

EMERGENCY MEDICAL PROCEDURES

| INHALATION: | Remove to fresh air. | Provide oxygen if breathing is di | fficult. Call a |
|-------------|----------------------|-----------------------------------|-----------------|
| • | physician | , - | 338-00 |

INGESTION: Do not induce vomiting. Call a physician.

Immediately flush with plenty of water for at least 15 minutes.

physician.

SKIN: Flush skin with water followed by soap and water wash. If irritation

occurs, call a physician.

EYES:

HEALTH/SAFETY INFORMATION

| - ' | | | | | | | | |
|-----------------------|--------------------------|--|--|---|---------------------------------|---------|-----------------|--|
| | Inhalation | Mists may cause irritation. | | | | | | |
| | Ingestion | May cau | se gastric irritatio | n. | | | • | |
| Health | Skin | Prolong | ed or repeated expos | ure may cause | skin irritati | on. | | |
| 1 | Eyes | Contact may cause irritation. | | | | | | |
| • | Threshold turnt Value | Threshold Limit Value See "Hazardous Ingredients" section. | | | | | | |
| | Flash Point(COC |) 400 F | Auto Ignison Temperatura | Flammable Limits in Air Extraguishing Media | | | | |
| Fire and Explosion | Not Flammab | | N.D.A. °F | Lower N.D.A. Use fog, foam, dr Upper N.D.A. chemical or Carbon D | | - | | |
| Fire | Umumuse Fire Late Explos | eon el caració | | E | tingu shing Media Not to be Usi | ec . | | |
| щú | , | N | one | | Do not us | e water | * * * * * * * * | |
| | Sciolity | | incompatibility (Materials to Avoid) | | | | | |
| ity | 🗓 Stable 🛄 t | Instable . | | erials. | | | | |
| Reactivity | Consteny to Avaid | Heat, open flames, and mist formation. | | | | | | |
| Rc | hazardoux Decempositi | on Products | Carbon Monoxide and formed by incomplete | | | | ration. | |

ENVIRONMENTAL

Spili or leak procedures

It is recommended that the purchaser develop a plan which includes procedures for proper storage as well as clean-up of spills or leaks. Procedures should conform to safe practices and provide for proper recovery or disposal. Spills entering surface waters or any watercourses or sewers entering/leading to surface waters that cause a sheen must be reported to the National Response Center - Tel. # 1 (800) 424-8802. Soak up with inert absorbent and scoop into a covered container for disposal.

Waste Disposal Method*

Used or unused product should be tested to determine hazard status and disposal requirements.

*Disposer must comply with Federal, State and Local disposal or discharge laws.

ADDITIONAL INFORMATION

Avoid breathing mist.

Do not ingest.

Wash skin throughly after contact.

Keep away from extreme heat and open flames.

Launder contaminated clothing before reuse.

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, express or implied, for an arrival transfer or connections.

The conditions or methods of handking, storage, test and the people of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not have the sum of the condition of the sum of

KACC 5056 (183) Back 711DW

MATERIAL SAFETY DATA SHEET

(Essentially similar to Form OSHA-20) < Complies with 29CFR 1910.1200>

SECTION I

E0040 CODE NUMBER:

DATE

TRADE NAME: HH HYDRAULIC OIL ISO UG 32

SUPERCEDES :

CHEMICAL FAMILY: PETROLEUM

DAY: (213) 928-3311 EMERGENCY 24 HOURS: CHEMTREC: 800/424-9300

860521

5150

891101

CARCINOGENIC INGREDIENTS/OSHA/NTP/IARC:

C.A.S. NO.:

"MIXTURE"

TSCA INFORMATION: COMPONENTS OF THIS PRODUCT ARE LISTED

SECTION II — HAZARDOUS INGREDIENTS

| COMPONENTS | C.A.S. NOS.: | TL PPM | .V/PEL mg/m³ | PERCENT BY WEIGHT/VOLUME |
|---|--------------------------|-----------|-----------------|-----------------------------|
| SOLU REF PETR BASE STOCK | 64742-65-0 64742-18-3 | | 5 | (100 |
| CONTAINS ZINC SALT OF DIALKYL DITHIOPHOS POTENTIAL HEALTH AND ENVIRONMENTAL INPA THIS PRODUCT DEFINED AS NON-HAZARDOUS ES | T OF THE PRI | DUCT. | TO AFFECT THE | |

SECTION III - FIRE AND EXPLOSION HAZARD DATA

INCREDIENTS AUGILABLE TO PHYSICIAN OR NURSE IN FUENT OF MEDICAL ENERGENCY

HAZARDOUS THERMAL DECOMPOSITION CARBON MONOXIDE AND ASPHYXIANTS

FLAMMABLE LIMITS:

LEL - UEL

N/A ASTH D92(COC)

EXTINGUISHING

MEDIA: CARBON DIOXIDE, DRY CHEMICAL,

FLASH POINT: >200 ° C

C 3920 FS

FOATL HATERFOG

DOT INFORMATION:

UNUSUAL FIRE AND

EXPLOSION HAZARDS: SLICHTLY COMBUSTIBLE, WHEN HEATED ABOUE FLASH POINT HILL RELEASE FLANMABLE UAPORS WHICH CAN BURN IN OPEN OR BE EXPLOSIVE IN CONFINED SPACES IF EXPOSED TO SOURCE OF IGNITION.

SPECIAL FIRE

FIGHTING PROCEDURES:

DO NOT ENTER ANY ENCLOSED OR CONFINED

AREA WITHOUT PROPER PROTECTIVE EQUIPMENT AND SELF CONTAINED BREATHING

APPARATUS.

SECTION IV - PHYSICAL DATA

BOILING RANGE:

>300° C

SOLUBILITY:

MEG

PH: M/O

VAPOR PRESSURE: (0.01mm Hg E 20 ° C

APPEARANCE AND ODOR:

AMBER, DILY LIQUID

PETROLEUM DOOR SPECIFIC WEIGHT PER GALLON **VAPOR DENSITY** % VOLATILE BY VOLUME **EVAPORATION RATE** HEAUTER THAN AIR LESS THAN ETHER 0.867 7.22 MIL

INCOMPATIBILITY

<materials to avoid>:

STRONG OXIDIZING AGENTS

STABILITY:

CONDITIONS TO AVOID:

STABLE

DO NOT HEAT ABOUE FLASH POINT

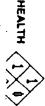
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON HONOXIDE AND ASPHYXIANTS

HAZARDOUS POLYMERIZATION

OCCUPATIONAL EXPOSURE LIMIT

NONE

TLV = 5mg/m3 AS OIL MIST



| 35 |) |
|----|---|
| 7 | , |

Manufactured By LUBRICATING SPECIALTIES COMPANY

| ADVERSE EFFECTS: | FIRST AID PROCEDURES: | NFPA |
|--|--|------|
| NOT MORNALLY EXPECTED TO CAUSE ANY ILL EFFECTS EXCEPT IN VERY SENSITIVE INDIVIDUALS | DO NOT INDUCE CONTITING. CONSULT PHYSICIAN | |
| NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR ON SHORT TERM EXPOSURE | REMOVE FROM CONTAMINATED AREA. APPLY ARTIFICIAL RESPIRATION. IF UNCONCIOUS CONSULT PHYSICIAN | |
| NOT NORMALLY EXPECTED TO CAUSE ANY ILL EFFECTS EXCEPT IN UERY SENSITIUE INDIVIDUALS | FLUSH WITH COPIDUS AMOUNTS OF WATER. IF IRRITATION DEVELOPES CONSULT PHYSICIAN | |
| NOT NORMALLY EXPECTED TO CAUSE ANY ILL EFFECTS EXCEPT IN VERY SENSITIVE INDIVIDUALS | HASH WITH SOAP AND HATER. CONSULT PHYSICIAN IF IRRITATION OR INFLAMMATION DEUELOPES. | |
| PROLONGED AND/OR REPEATED CONTACT MAY PRODUCE HILD SKIN IRRITATION AND INFLAM- | WEAR PROTECTIVE CLOTHING TO AWOID SKIN CONTACT. COMSULT PHYSICIAN IF | |

SHOULD AUGID CONTACT <DOT> SECTION VII — SPILL OR LEAK PROCEDURES <EPA>

STEPS TO BE TAKEN IN CASE

PRE-EXISTING SKIN DISORDER

MATION. PERSONNEL WITH

MATERIAL IS RELEASED OR SPILLED: STOP FLOW. HIPE OR MOP UP OR ABSORB HITH DIATOMACEOUS EARTH OR OTHER INERT MATERIAL. STORE IN APPROPRIATE CONTAINER FOR DISPOSAL.

WASTE DISPOSAL METHOD:

IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

TRANSPORTATION INFORMATION:

CONSULT 49 CFR PARTS 1-300

AND REFER TO SECTION III OF THIS MSDS FOR ADDITIONAL RECCOMMENDATIONS

CONCERNING PLACARDING

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY

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EC Y O

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PROTECTION: NOWE NORMALLY REQUIRED

PROTECTIVE GLOVES: RECCONTENDED

EYE PROTECTION: REQUIRED

IRRITATION OR INFLAMMATION

DEVELOPES.

OTHER PROTECTIVE EQUIPMENT:

CHEMICALLY RESISTANT BOOTS AND APRONS RECCOMMENDED.

VENTILATION: SUFFICIENT TO MAINTAIN ATMOSPHERE BELOW TLU LIMIT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING OR STORING: AUDID STORAGE MEAR OPEN FLAME OR OTHER SOURCES OF IGNITION. EXCESSIVE HISTING MAY CAUSE SLIPPERY FLOORS. PROPER FOOTHEAR REQUIRED.

PERSONAL HYGIENE: WASH HANDS WITH SOAP AND WATER BEFORE EATING, DRINKING, OR SHOKING.

OTHER PRECAUTIONS: WASH OR TAKE SHOWER IF CENERAL CONTACT OCCURS. REMOVE GIL-SOAKED CLOTHING AND LAUNDER BEFORE REUSE. DISCARD CONTAMINATED LEATHER GLOVES AND

SHOES. APPROVED BY:

RICHARD J. EBERHARDT LABORATORY MANACER 76732368181

DATE:

910308

PROTECTION (NFPA)

REACTIVITY

S0 'd

1944- 8-92 MED 11:49 SHASTA PETROLEUM CORP

U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

NOTE: REQUIRED UNDER USDL SAFETY AND HEALTH REGULATIONS FOR SHIP REPAIRING, SHIPBUILDING AND SHIPBREAKING. (29 CFR 1915, 1916, 1917) SECTION I MANUFACTURER'S NAME EMERGENCY TELEPHONE NUMBER National Chemsearch; Div. of NCH Corporation 214/438-4144 ext. 013 DRESS (NUMBER, STREET, CITY, STATE & ZIP CODE) 2727 Chemsearch Blvd.; Irving, Texas 75062 CHEMICAL NAME & SYNONYMS SS-80 CHEMICAL FAMILY FORMULA SECTION II - HAZARDOUS INGREDIENTS TLY TLV PAINTS, PRESERVATIVES & SOLVENTS ALLOYS AND METALLIC COATINGS (UNITS) % (UNITS) **PIGMENTS** BASE METAL CATALYST ALLOYS VEHICLE METALLIC COATINGS FILLER METAL PLUS **SOLVENTS** COATING OR CORE FLUX **ADDITIVES OTHERS OTHERS** TLV HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES (UNITS) Aliphatic Petroleum Distillates CAS# 9032-32-4 40-60 100 ppm 1,1,1 Trichloroethane 71-55-6 20. 40 350 ppm Methylene Chloride 75-09-2 20-100 ppm SECTION III - PHYSICAL DATA BOILING POINT (*F) SPECIFIC GRAVITY (H,O=1) I.B.R 113 0.986 PERCENT, VOLATILE BY VOLUME (%) VAPOR PRESSURE (mm Hg.) 120 100 EVAPORATION RATE VAPOR DENSITY (AIR=1) (Bu Ac 0.10 SOLUBILITY IN WATER Dielectric: Not soluble 25 KV APPEARANCE AND ODOR Water white, chlorinated odor SECTION IV - FIRE AND EXPLOSION HAZARD DATA FLASH POINT (METHOD USED) LAMMABLE LIMITS LEL UEL 185°F T.O.C. EXTINGUISHING MEDIA Foam, CO2, Chemical SPECIAL FIRE FIGHTING PROCEDURES y 190.5. None 分析化 机二基磺基胺 不同心 TUSUAL FIRE & EXPLOSION HAZARDS None 80-01-0018-1889

| THRESHOLD LIN | SECTION V - H | EALTH HAZARD DATA | |
|--|---|--|--|
| THE SHOES EIN | ALL VACUE | | |
| EFFECTS OF OV | /EREXPOSURE | | |
| • | | | |
| | Headache, Nausea, Blurred Vision, | and Difficulty in Breathing | |
| | | - | |
| EMERGENCY & F | IRST AID PROCEDURES | | |
| | INHALATION: Move to fresh air T | | |
| | INHALATION: Move to fresh air. To SKIN: Apply lanolin rich cream. | ceat symptomatically. | |
| | EYES: Flush with water for 10-15 r | minutos Soo - where the | , |
| | INGESTION: Do not induce vomitting | g. Give a solution of activate | |
| | See a physician immedia | itely | d charcoal. |
| | SECTION VI - R | EACTIVITY DATA | |
| | CONDITIONS TO | AVOID | |
| STABILITY | X STABLE UNSTABLE | - | • |
| | | | |
| NC OMPATIBILIT | Y (MATERIALS TO AVOID) | | |
| | | | |
| AZARDOUS DEC | OMPOSITION PRODUCTS | | |
| | | ` | , · · · |
| | WILL NOT CONDITIONS TO | AVOID | |
| HAZARDOUS OLYMERIZATIO | L OCCUR L MAY OCCUP | • | A second second |
| OLIMERIZATIO | | | |
| | | | ··· |
| TEPS TAKEN IN | SECTION VII - SPILL C | OR LEAK PROCEDURES | |
| | | ** | |
| | Extinguish all sources of ignition. | Venitlate area. | |
| | | | |
| | | | |
| | · . | | |
| ASTE DISPOSAL | | | |
| | Wipe up. Do not dispose of in drai | n or sewer. Dispose of as with | anv |
| | | | ally |
| | chlorinated solvent. | The second secon | |
| | Burn the server to | | |
| | SECTION VIII SPECIAL P | POTECTION IN COLUMN 1 | en fill them to prove the comme |
| ESPIRATORY PR | OTECTION (SPECIFY TYPE) | ROTECTION IN FORMATION | |
| | | | |
| | LOCAL EXHAUST | SPECIAL | |
| VENTILATION | Usually adequate | A service of the serv | ا و در |
| | MECHANICAL (GENERAL) | OTHER THE TENTON | |
| D.O.T | | | and the second |
| ROTECTIVE GLO | · · · · · · · · · · · · · · · · · · · | EYEPROTECTION | |
| THER PROTECTI | Neophrene or PVA if skin contacted | Goggles - acid type splash | proof |
| ······································ | • | | |
| | Neophrene or PVA (Polyvinyl alcohol | plastic) | |
| RECAUTIONS TO | D BE TAKEN IN HANDLING & STORING | - SPECIAL PRECAUTIONS | |
| | | e at constant to- | 0 |
| • | Use with adequate ventilation. Stor | e at constant temperatures belo | ow 120°F/50°C. |
| THER PRECAUTI | | | |
| | KEEP OUT OF REACH OF CHILDREN. | | No. |
| | Follow label directions. | | ay garasiy 🔎 |
| | | | |

01-0018-1889 (BACK)

野岳のいている。

CHASE CHEMICAL CO.

NUV 11 Todo

MATERIAL SAFETY DATA SHEET

13546 Desmond Street Pacoima, CA 91331 (818) 899-7411 • (213) 875-0881

ALLAN ATRORAGE

MSDS NUMBER

PAGE 1

| 24 HOUR EMERGENCY ASSISTANCE | GE | NERAL | MSDS A | SSISTANCE | |
|---------------------------------|------------------------|----------|------------|-----------|---|
| SHELL: 713-473-9461 CHEMTREC: 8 | 00-424-9300 | SHEL | L: 713-2 | 241-4819 | BE SAFE |
| ACUTE HEALTH . FIRE REACTIVITY | HAZARD RATING | EAST - 0 | SLIGHT - | | SAFETY INFORMATIONAND PASS IT ON IPRODUCT LIABILITY LAW |
| *For acute and chronic health e | ffects refer to the di | scussion | in Section | 111 | AEQUIAES 113 |
| SECTION I | NAME | | | | |
| NEGGOI PROPRIETARY SOLVEN | · T | | | | |

| SECTION | |
|--------------------|----------------------------|
| PRODUCT | NEOSOL PROPRIETARY SOLVENT |
| CHEMICAL NAME | > |
| CHEMICAL FAMILY | DENATURED ALCOHOL |
| SHELL CODE |) 31384 31385 |

| SECT | FION II-A PRODUCT/INGREDIENT | PRODUCT/INGREDIENT | | | | | | |
|------|---|--------------------|--------------|--|--|--|--|--|
| NO. | COMPOSITION | CAS NUMBER | PERCENT | | | | | |
| P | NEOSOL PROPRIETARY SOLVENT | MIXTURE | 100 | | | | | |
| 1 2 | ETHYL ALCOHOL (190 OR 200 PROOF) METHYL ALCOHOL | 64-17-5 67-56-1 | 90-95 3-4 | | | | | |
| 3 | ETHYL ACETATE | 141-78-6 | <2 | | | | | |
| 4 | METHYL ISOBUTYL KETONE | 108-10-1 | <2 | | | | | |
| 5 | HYDROCARBON SOLVENT | 64742-89-8 | <2 | | | | | |

| NO. | ACUTE DRAL LD50 | ACUTE DERMAL LD50 | ACUTE INHALATION LC50 |
|-----|------------------|--------------------|--------------------------|
| | | | |
| P | NONE ESTABLISHED | | |
| 1 | 13.7 G/KG - RAT | >2.0 G/KG - RABEIT | NONE |
| 2 | 5.6 G/KG - RAT | 20 G/KG - RABBIT | 64000 PPM - 4H - RAT |
| 3 | 11.0 G/KG - RAT | NONE | 1600 PPM - 8 HR - RAT |
| 4 | 2.1 G/KG - RAT | >20 G/KG - RABBIT | APX. 3000 PPM - 4H - RAT |
| 5 | >25 G/KG - RAT | >5 G/KG - RABBIT | 73,680 PPM - 4 HR - RAT |

ACUTE TOXICITY DATA

SECTION III HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

EYE CONTACT

SECTION II-B

BASED ON PRESENCE OF COMPONENTS 1, 2 AND 4, PRODUCT IS PRESUMED TO BE MILDLY TO SEVERELY IRRITATING TO THE EYES.

SKIN CONTACT

BASED ON PRESENCE OF COMPONENTS 2 AND 4, PRODUCT IS PRESUMED TO BE SLIGHTLY TO MODERATELY IRRITATING TO THE SKIN AND MAY BE SLIGHTLY TOXIC IF ABSORBED THROUGH THE SKIN. PROLONGED OR REPEATED LIQUID CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS.

MSDS 5,315-3 PAGE 2

INHALATION

BASED ON PRESENCE OF COMPONENTS 2, 3 AND 4, PRODUCT MAY CAUSE IRRITATION TO THE NOSE, THROAT AND RESPIRATORY TRACT AND BASED ON PRESENCE OF COMPONENTS 3, PRODUCT IS TOXIC. BASED ON PRESENCE OF ALL COMPONENTS, INHALATION MAY PRODUCE CNS DEPRESSION AND LIVER, KIDNEY AND OPTIC NERVE DAMAGE. INHALATION OF VAPORS OF COMPONENT 5 MAY RESULT IN PERIPHERAL NEUROPATHY.

INGESTION

BASED ON PRESENCE OF COMPONENTS 4, PRODUCT IS PRESUMED TO BE MODERATELY TOXIC. INGESTION OF PRODUCT MAY PRODUCE CNS DEPRESSION AND LIVER DAMAGE. BASED ON THE PRESENCE OF COMPONENT 5, INGESTION OF PRODUCT MAY RESULT IN VOMITING; ASPIRATION (BREATHING) OF VOMITUS INTO THE LUNGS MUST BE AVOIDED AS EVEN SMALL QUANTITIES MAY RESULT IN ASPIRATION PNEUMONITIS.

SIGNS AND SYMPTOMS

IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CNS (CENTRAL NERVOUS SYSTEM) DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS AND NAUSEA; IN EXTREME CASES, UNCONCIOUSNESS AND DEATH MAY OCCUR. LIVER DAMAGE MAY BE EVIDENCED BY LOSS OF APPETITE, JAUNDICE (YELLOWISH SKIN COLOR) AND SOMETIMES PAIN IN THE UPPER ABDOMEN ON THE RIGHT SIDE. KIDNEY DAMAGE MAY BE EVIDENCED BY CHANGES IN URINE OUTPUT, URINE APPEARANCE OR EDEMA (SWELLING FROM FLUID RETENTION). OPTIC NERVE DAMAGE MAY BE EVIDENCED BY PARTIAL OR COMPLETE LOSS OF VISION. PERIPHERAL NERVE DAMAGE MAY BE EVIDENCED BY MUSCULAR WEAKNESS AND LOSS OF SENSATION IN THE ARMS AND LEGS. ASPIRATION PNEUMONITIS MAY BE EVIDENCED BY COUGHING, LABORED BREATHING AND CYANOSIS (BLUISH SKIN); IN SEVERE CASES DEATH MAY OCCUR.

AGGRAVATED MEDICAL CONDITIONS

PREEXISTING EYE, SKIN, AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED LIVER, KIDNEY, OPTIC NERVE AND PERIPHERAL NERVE FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

SEE SECTION VI FOR ADDITIONAL HEALTH INFORMATION.

| SECTI | DN IV | OCCUPATIO | NAL EXPOSURE LIMI | TS | |
|---------|--------------------|-------------|--------------------|-----------------|-------|
| NO. | OSHA PEL/TWA | PEL/CEILING | AC TLV/TWA | GIH TLV/STEL | OTHER |
| P 1 | NONE ESTABLISHED | | 1000 PPM | | |
| 2 3 | 200 PPM 400 PPM | | 200 PPM 400 PPM | 250 PPM | |
| 4 5* | 100 PPM . | | 50 PPM 400 PPM | 75 PPM | |

^{*} RUBBER SOLVENT RECOMMENDED AS A GUIDELINE.

| SECTION V | EMERGENCY AND FIRST AID PROCEDURES |
|-----------|------------------------------------|
| | |

EYE CONTACT

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT

FLUSH SKIN WITH WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING OR SHOES UNTIL CLEANED.

INHALATION

REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

INGESTION

DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30CC (2 TABLESPOONS) SYRUP OF IPECAC.* IF IPECAC IS UNAVAILABLE, GIVE 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF VICTIM'S THROAT. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION.

NOTE TO PHYSICIAN

*IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15CC (1 TABLESPOON) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TUBE.

the company was a great or a surface of the same

MSDS 5,315-3 PAGE

SECTION VI SUPPLEMENTAL HEALTH INFORMATION

PERSONS ON DISULFIRAM (ANTABUSE(R)) THERAPY SHOULD BE AWARE THAT THE ETHYL ALCOHOL IN THIS PRODUCT IS HAZARDOUS TO THEM JUST AS IS ALCOHOL FROM ANY SOURCE. DISULFIRAM REACTIONS (VOMITING, HEADACHE AND EVEN COLLAPSE) MAY FOLLOW INGESTION OF SMALL AMOUNTS OF ALCOHOL AND HAVE ALSO BEEN DESCRIBED FROM SKIN CONTACT.

STUDIES IN LABORATORY ANIMALS INVOLVING PROLONGED AND REPEATED EXPOSURES TO ETHYL ALCOHOL HAVE RESULTED IN SUCH EFFECTS AS LIVER DAMAGE. EMERYOTOXICITY, FETOTOXICITY, AND TERATOGENICITY. A TRANSIENT MUTAGENIC EFFECT HAS BEEN REPORTED IN RATS.

SOME ANIMAL STUDIES HAVE REPORTED DEGENERATION OF HEART-MUSCLE AFTER REPEATED EXPOSURE TO HIGH LEVELS OF METHYL ALCOHOL.

A 1985 PUBLICATION REPORTS THAT METHYL ALCOHOL WAS TERATOGENIC IN RATS BY INHALATION AT 20,000 PPM. 7 HOURS/DAY DURING GESTATION. ONLY SLIGHT MATERNAL TOXICITY WAS OBSERVED INDICATING THAT METHYL ALCOHOL WAS PROBABLY A PRIMARY TERATOGEN IN THE RAT UNDER THE CONDITIONS OF EXPOSURE. AT 5,000 PPM EXPOSURE, METHYL ALCOHOL WAS NOT TERATOGENIC. (FUND APPL TOX, 5:727, 1985)

COMPONENT 5 OF THIS PRODUCT MAY CONTAIN CERTAIN ISOPARAFFINS THAT HAVE BEEN DEMONSTRATED TO CAUSE KIDNEY EFFECTS IN MALE RATS AND CARDIAC SENSITIZATION IN OTHER SPECIES. THE RELEVANCE OF THE KIDNEY EFFECTS TO MAN IS UNKNOWN. THERE IS NO EVIDENCE THAT EXPOSURE TO INDUSTRIALLY ACCEPTABLE LEVELS OF HYDROCARBONS (E.G., THE TLV) HAVE PRODUCED CARDIAC EFFECTS IN HUMANS. SUCH SENSITIZATION, HOWEVER, MAY CAUSE FATAL CHANGES IN HEART RHYTHM. THIS LATTER EFFECT HAS BEEN SHOWN TO BE ENHANCED BY HYPOXIA OR THE INJECTION OF ADRENALIN-LIKE AGENTS.

PHYSICAL DATA

BOILING POINT: 163-174 (DEG F)

(H20=1)

SPECIFIC GRAVITY: .7955 TO .8152 VAPOR PRESSURE: 42 \$ 68 DEG. F

(MM HG)

(ESTIMATED)

MELTING POINT: NOT AVAILABLE

SOLUBILITY: COMPLETE (IN WATER)

VAPOR DENSITY: 1.8

(AIR=1) (ESTIMATED)

EVAPORATION RATE (N-BUTYL ACETATE = 1): 1.4 (ESTIMATED)

APPEARANCE AND ODOR: CLEAR, COLORLESS LIQUID. MILD ODOR.

SECTION VIII

FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD:

55-60 DEG. F (TCC)

FLAMMABLE LIMITS /% VOLUME IN AIR LOWER: 3.3 UPPER: 19.0

EXTINGUISHING MEDIA

USE WATER FOG. "ALCOHOL" FOAM, DRY CHEMICAL OR CO2.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

WARNING. FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS). INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

PRODUCT NAME: NEOSOL PROPRIETARY SOLVENT

SECTION IX

REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, SPARKS, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS. DO NOT STORE OR HANDLE IN ALUMINUM EQUIPMENT AT TEMPERATURES OVER 120 DEG. F.

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

AVOID BREATHING VAPOR.

USE A NIOSH-APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134, USE EITHER A FULL-FACE, ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

PROTECTIVE CLOTHING

AVOID CONTACT WITH EYES. WEAR CHEMICAL GOGGLES IF THERE IS LIKELIHOOD OF CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WEAR GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT.

ADDITIONAL PROTECTIVE MEASURES

USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL PARTICULATE CONCENTRATIONS. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR EMERGENCY USE.

SECTION XI

______ ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

WARNING. FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. *** LARGE SPILLS *** EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOR MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. *** SMALL SPILLS *** TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

WASTE DISPOSAL

UNDER EPA - RCRA (40 CFR 261.21). IF THIS PRODUCT BECOMES A WASTE MATERIAL, IT WOULD BE IGNITABLE HAZARDOUS WASTE, HAZARDOUS WASTE NUMBER DOO1. REFER TO LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.

ENVIRONMENTAL HAZARDS

EPA - COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT. UNDER EPA-CERCLA ("SUPERFUND") RELEASES TO AIR, LAND OR WATER MAY BE REPORTABLE TO THE NATIONAL RESPONSE CENTER. 800-424-8802 (CIRCUMSTANCES SURROUNDING THE RELEASE AND CLEANUP DETERMINE REPORTABILITY).

SECTION XII

SPECIAL PRECAUTIONS

VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE; FLASH-FIRE CAN RESULT. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE (ONLY) WITH ADEQUATE VENTILATION.

WASH WITH SDAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

DO NOT STORE OR HANDLE IN ALUMINUM EQUIPMENT AT TEMPERATURES OVER 120 DEG. F.

PRODUCT NAME: NEOSOL PROPRIETARY SOLVENT

SECTION XIII

TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION: FLAMMABLE LIQUID

D.O.T. PROPER SHIPPING NAME: DENATURED ALCOHOL

OTHER REQUIREMENTS:

DOT I.D. NO. = NA 1986, GUIDE 28.

SECTION XIV

OTHER REGULATORY CONTROLS

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, SHELL MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SHELL ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

DATE PREPARED: SEPTEMBER 15, 1986

BE SAFE

READ OUR PRODUCT SAFETY INFORMATION ... AND PASS IT ON (PRODUCT LIABILITY LAW REQUIRES IT)

JOHN P. SEPESI

SHELL DIL COMPANY PRODUCT SAFETY AND COMPLIANCE P. O. BOX 4320 HOUSTON, TX 77210

U.S. DEPARTMENT OF LABOR MATERIAL SAFETY DATA SHEET MEB 1/83 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION NO E: REQUIRED UNDER USDL SAFETY AND HEALTH REGULATIONS FOR SHIP REPAIRING, SHIPBUILDING AND SHIPBREAKING. (29 CFR 1915, 1916, 1917) SECTION I FACTURER'S NAME EMERGENCY TELEPHONE NUMBER ational Chemsearch; Div. of NCH Corporation 214-438-4144 Ext. 013 2727 Chemsearch Blvd., Irving, Texas 75062 CHEMICAL NAME & SYNONYMS TRADE NAME & SYNONYMS NC-123 LIQUID CHEMICAL FAMILY SECTION II - HAZARDOUS INGREDIENTS TLV TLV PAINTS, PRESERVATIVES & SOLVENTS % ALLOYS AND METALLIC COATINGS (UNITS) (UNITS) **PIGMENTS** BASE METAL CATALYST ALLOYS **VEHICLE** METALLIC COATINGS FILLER METAL PLUS SOLVENTS COATING OR CORE FLUX ADDITIVES OTHERS OTHERS TLV HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES (UNITS) liphatic Petroleum Distillate 100 ppm 1,1,1-Trichloroethane 350 ppm SECTION III - PHYSICAL DATA BOILING POINT (°F) SPECIFIC GRAVITY (H20=1) 165 0.925 PERCENT, VOLATILE BY VOLUME (%) VAPOR PRESSURE (mm Hg.) 35 91 EVAPORATION RATE VAPOR DENSITY (AIR=1) 4.5 Bu Ac =11 0.10 SOLUBILITY IN WATER Negligible APPEARANCE AND ODOR Clear to slightly cloudy, amber liquid, solvent odor. SECTION IV - FIRE AND EXPLOSION HAZARD DATA FLASH POINT IMETHOD USED! FLAMMABLE LIMITS LEL UEL 110°F. T.O.C. EXTINGUISHING MEDIA CO, Dry Chemical, Foam

NUSUAL FIRE & EXPLOSION HAZARDS

| | | EALTH HAZARD DATA | |
|-----------------------------|---------------------------------------|-----------------------------|-------|
| THRESHOLD LIMI | TVALUE | • | |
| EFFECTS OF OVE | | | |
| | · · · · · · · · · · · · · · · · · · · | | |
| neadache | , nausea, blurred vision, tightness | of the chest. | |
| | | | |
| EMERGENCY & FI | EST AID PROCEDURES | |) |
| INHALATIO | ON: Get to fresh air. Treat sympto | omatically | • |
| | | | |
| INTERNAL: | Do not induce vomiting. Call a p | hysician immediately. | • |
| | | | |
| EXTERNAL: | : Wash with soap and water. Use em | | |
| | | REACTIVITY DATA | |
| | STABLE DUNSTABLE | AVOIC | |
| STABILITY | LX STABLE LUNSTABLE | | |
| | | | |
| INC OMPATIBILITY | ((MATERIALS TO AVOID) | | |
| | | | |
| HAZARDOUS DECC | MPOSITION PRODUCTS | | |
| | | | |
| | WILL NOT | AVOID | |
| HAZARDOUS POLYMERIZATION | X OCCUR MAY OCCUR | | |
| | | | |
| | SECTION VII - SPILL | OR LEAK PROCEDURES | |
| STEPS TAKEN IN | CASE MATERIAL IS RELEASED OR SPILLED | | |
| Mop up or | r flush into floor drain. Ventilate | area until vapors are clean | · |
| | | | |
| | | | |
| | | | |
| NASTE DISPOSAL | MET-00 | | ·) |
| | solvent reclaimer. | | |
| | | | |
| | | | |
| | | | |
| | | | |
| RESPIRATORY PR | SECTION VIII - SPECIAL) | PROTECTION IN FORMATION | |
| | | | |
| | LOCAL EXHAUST | SPECIAL | 30.35 |
| VENTILATION | Usually adequate | | |
| | MECHANICAL (GENERAL) | OTHER | |
| PROTECTIVE SLO | | | |
| | , | EYE PROTECTION | |
| PVA STHER PROTECTI | VE EQUIPMENT | Goggles when spraying | |
| • | | | |
| | SECTION IX | - SPECIAL PRECAUTIONS | |
| PRECAUTIONS TO | BE TAKEN IN HANDLING & STORING | | |
| Store and | d use at moderate temperatures. | • | |
| STHEP PRECAUTI | | | |
| | • | I DREW | |
| LOTIOM 12 | abel directions. KEEP AWAY FROM CHI | EDREN. | |
| • | • | , | rev |
| | • | A series of the series of | |
| | | | |

Material Safety ata Sheet



| | _ | | | | |
|---|--------|---|------|------|-----|
| 1 | Genera | 1 | into | rmai | ion |

Chemical Name & Synonyms NOT APPLICABLE

Chemical Family WATER SOLUBLE ORGANIC

Proper DOT Shipping Name LUBRICANT, METAL CUTTING

Manufacturer FAR WEST OIL COMPANY, INC.

Manufacturer's Address 11221 FLEETWOOD STREET SUN VALLEY, CA 91352

Trade Name & Synonyms SYNTHETIC COOLANT 3500

Formula COMPLEX MIXTURE

DOT Hazard Classification NOT HAZARDOUS

Manufacturer's Phone Number (818) 768-3119

Chemirec Phone Number

| II. | In | gr | ed | 1e | n | 15 |
|-----|----|----|----|----|---|----|
| | | | | | - | _ |

| II. Ingredients | | | | | | | | | |
|---|---------|---|--|--|--|--|--|--|--|
| Principal Hazardous Components | Percent | Threshold Limit Value (units) | | | | | | | |
| PETROLEUM OIL, CAS #64741-96-4 | 5-10 | 5mg/M ³ AS MIST IN AIR | | | | | | | |
| PROPRIETARY - | - | ACUTE ORAL LD50 FOR RATS 310-455 mg/Kg | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| AS DEFINED IN OSHA 29CFR 1910, 1000 AND | | | | | | | | | |

III. Physical Data

Boiling Point (°F) OVER 212° F

Vapor Pressure (mm Hg.) NOT DETERMINED

Evaporation Rate (_____ = 1) AS FOR WATER

Specific Gravity (H2O = 1) APPROXIMATELY 1

Vapor Density (Air = 1) AS FOR WATER

рн 9.6

Solubility in Water

Appearance & Odor

1910, 1200.

COMPLETE

DARK BLUE LIQUID WITH SLIGHT AMINE ODOR.

IV. Fire & Explosion Hazard Data

LEL

Flash Point (Test Method) NO FLASH

Auto Ignition Temperature NONE

Percent Volatile By Volume (%) 58

Flammable Limits

NOT FLAMMABLE

UEL

(Z)

Extinguishing Media

NOT FLAMMABLE

Special Fire Fighting Procedures NONE KNOWN

Unusual Fire & Explosion Hazards NONE KNOWN

3500 SYNTHETIC COOLANT

№ 55 GALLONS NET □ 5 GALLONS NET **BATCH**

READ MATERIAL SAFETY DATA SHEET BEFORE USING. FOR INDUSTRIAL USE ONLY

INSTRUCTIONS FOR USE

| GENERAL MACHINING AT 20:1 DILUTION. SAWING 10:1 DILUTION. GRINDING 30:1 DILUTION. | USAGE FOR #3500 |
|---|-----------------------|
| WASH CONTAMINATED CLOTHING BEFORE REUSE. MINIMIZE BREGTHING OF MIST. AVOID CONTACT WITH EYES. DO NOT TAKE INTERNALLY. DO NOT USE NEAR OPEN FLAME. KEEP DRUMS CLOSED WHEN NOT IN USE. DO NOT MIX WITH NITRITES OR OTHER PRODUCTS. | STORAGE AND HANDLING |
| RECOVER FREE PRODUCT AND PLACE IN CONTAINER. ADD SAND OR CLAY TO OTHER SPILL AREA. KEEP SPILL FROM SEWER OR OTHER WATER WAYS BY DIKING. ALERT PROPER LOCAL AUTHORITIES OR SPILL. RECYCLE OR DISPOSE OF IN ACCORDANCE WITH GOVERNMENT REGULATIONS. | DISPOSAL INSTRUCTIONS |

SAFETY INFORMATION

| ESTABLISHED. DO NOT INGEST. | INGESTION: LDS0 HAS NOT BEEN | CONCENTRATED MISTERS MAY AGGRE- | REFER TO HAZARDOUS MATERIALS | INHALATION: TLV NOT ESTABLISHED, | SKIN ABSORPTION: NOT EXPECTED | EXPOSURE. | MAY OCCUR OFTER ESON NORTH | IRRITATION. | EYE COMTACT: WILL CAUSE EYE | HEALTH HAZARD INFORMATION | |
|---|---|---------------------------------|------------------------------|---|-------------------------------|---|----------------------------|-------------|--|---|--|
| PETROLEUM OIL 64741-96-4, 7 5m9/M3 AS MIST IN AIR (TLV) | INGREDIENTS CAS NO. % RANGE HAZARD DATA | HAZARDOUS MATERIALS | RIDGE COMBINATION. | IN ANY OF THE ABOVE CONDITIONS. PROVIDE NIOSH APPROVED RESPIRATOR | PERSISTS C | INGESTION: CONSULT PHYSICIAN IMMEDIATELY. VENTILATION REQUIREMENTS: LOCAL | m | | EYES: FLUSH WITH WATER FOR 15 MINUTES. EYES: SAFETY OLDSSES IF DESIRED | EMERGENCY AND FIRST AID PROCEDURES . SPECIAL PROTECTION INFORMATION | |

CAUTION: DO NOT WELD, CUT, GRIND OR EXPOSE EMPTY CONTAINER TO HEAT OR FLAME. EXPLOSION HAZARD.







11221 FLEETWOOD ST. SUN VALLEY, CA 91352 (818)768-3119



PRODUCT APPLICATION AND SPECIFICATIONS



3500 SYNTHETIC COOLANT

Product Description:

Unique micro-emulsion chemical cutting and grinding fluid designed to be used on both ferrous and non-ferrous metals in most moderate duty machining applications.

Typical Uses:

Turning, drilling and milling ferrous metals 20:1, non-ferrous 30:1 dilution.

Sawing at 10:1 dilution.

Surface grinding and centerless grinding at 30:1 dilution.

Gear cutting, broaching and tapping at 3:1 dilution.

Features:

Excellent cooling produces good close tolerances.

Extended sump life; resistant to bacterial attack.

Non-foaming under most conditions.

Safe to use. Free from nitrites, phenols, sulfur and chlorine.

Forms a transparent solution.

Specifications:

Appearance Color Odor pH, @ 20:1 dilution

Light Oily Liquid Emerald Green Mild and Clean 9.2



aterial Safety n Data Sheet

FAR WEST OIL CO., INC./11221 FLEETWOOD ST., SUN VALLEY, CA 91352 • (818) 768-3119

General Information

Chemical Name & Synonyms NOT APPLICABLE

Chemical Family WATER SOLUBLE ORGANIC

Proper DOT Shipping Name LUBRICANT, METAL CUTTING

Manufacturer FAR WEST OIL CO., INC.

11221 Fleetwood St. Manufacturer's Address

Sun Valley, Ca. 91352

Trade Name & Synonyms 3500 SYNTHETIC COOLANT

Formula COMPLEX MIXTURE

DOT Hazard Classification NOT HAZARDOUS

Manufacturer's Phone Number (818) 768-3119

Chemtrec Phone Number

II. Ingredients

| Principal Hazardous Components | Percent | Threshold Limit Value (units) |
|--------------------------------|---------|-----------------------------------|
| PETROLEUM OIL, CAS# | 7 | 5mg/M ³ AS MIST IN AIR |

AS DEFINED IN OSHA 29CFR 1910, 1000 AND 1910, 1200

III. Physical Data

Boiling Point (°F) OVER 212° F

Vapor Pressure (mm Hg.) NOT DETERMINED

Vapor Density (Air = 1) AS FOR WATER

Solubility in Water COMPLETE

Appearance & Odor DARK BLUE LIQUID WITH SLIGHT AMINE ODOR.

Specific Gravity (H₂O = 1) APPROXIMATELY 1

Percent Volatile By Volume (%)

Evaporation Rate ($\frac{H20}{I} = 1$) AS FOR WATER

9.6

IV. Fire & Explosion Hazard Data

Flash Point (Test Method) NO FLASH

Flammable Limits NOT FLAMMABLE

Extinguishing Media NOT FLAMMABLE

Special Fire Fighting Procedures NONE KNOWN

Unusual Fire & Explosion Hazards NONE KNOWN

Auto Ignition Temperature

NONE

LEL

UEL

V. Health Hazard Data

Threshold Limit Value NOT ESTABLISHED OSHA Threshold Limit Value NONE ESTABLISHED

ACGIH Threshold Limit Value
NONE ESTABLISHED

Carcinogen NTP Program NOT A KNOWN CARCINOGEN

| Carcinogen - IARC Program | NOT A KNOWN CARCINOGEN

Symptoms of Exposure PROLONGED CONTACT WITH "ONCENTRATE WILL DEFAT SKIN AND MAY CAUSE CONTACT DERMATITIS AS WITH SOAPS AND DETERGENTS.

Medical Conditions Aggravated By Exposure CONCENTRATED MISTING MAY AGGREVATE BREATHING DISORDERS.

Primary Route(s) of Entry BREATHING, IF USED IN SPRAY MIST.

Emergency First Aid (1) EYES: FLUSH WITH WATER FOR 15 MINUTES. (2) SKIN: WASH WITH SOAP AND ATER. (3) INGESTION: CONSULT PHYSICIAN IMMEDIATELY. (4) INHALATION: IF IRRITATION OCCURS, EMOVE TO FRESH AIR UNTIL MISTING DISSAPATES. CONSULT PHYSICIAN IF IRRITATION PERSISTS IN 2 AND 4

VI. Reactivity Data

Stability

Stable

Conditions To Avoid

DO NOT MIX WITH OTHER COOLANTS OR ADD NITRITES OR NITRATES TO THIS PRODUCT.

Materials To Avoid

DO NOT USE ON MAGNESIUM OR MAGNESIUM ALLOYS.

Conditions To Avoid

NONE KNOWN

Polymerization Will Not Occur
Hazardous Decomposition Products

NOT DETERMINED.

VII. Environmental Protection Procedures

Spill Response

RECOVER FREE PRODUCT AND PLACE IN CONTAINER. ADD SAND OR CLAY TO OTHER SPILL AREAS. KEEP SPILL FROM SEWER OR WATER WAYS BY DIKING. ALERT PROPER LOCAL AUTHORITIES OF SPILL.

Waste Disposal Method

RECYCLE, OR DISPOSE OF IN ACCORDANCE WITH APPLICABLE GOVERNMENT REGULATIONS.

VIII. Special Protection Information

Eye Protection

SAFETY GLASSES IF DESIRED.

Respiratory Protection (Specific Type)

NOT NORMALLY

Other Protection REQUIRED.

Skin Protection NOT NORMALLY REQUIRED IMPERVIOUS GLOVES IF DESIRED.

Ventilation Recommended

LOCAL VENTILATION IF HEAVY MISTING OCCURS.

IX. Special Precautions

Hygienic Practices In Handling & Storage

MINIMIZE BREATHING OF MIST. WASH WELL WITH SOAP AND WATER

AFTER USING. DO NOT WEAR CONTAMINATED CLOTHING. WASH OR DRY CLEAN CLOTHING BEFORE WEARING

AGAIN. REMOVE CONTAMINATED SHOES AND CLEAN THOROUGHLY.

Precautions For Repair & Maintenance Of Contaminated Equipment

EMPTY DRUMS AND TANKS MAY CONTAIN

RESIDUE WHICH CAN BE DANGEROUS. DO NOT WELD, CUT, GRIND, DRILL, SOLDER, BRAZE OR EXPOSE

CONTAINERS TO HEAT FLAME AND SPARKS, ETC. CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH.

Other Precautions
ALL DRUMS SHOULD BE DRAINED, BUNGS REPLACED AND OFFERED TO DRUM RECONDITIONERS
OR DISPOSED OF IN ACCEPTABLE MANNER.

Dear Customer: This Bulletin contains important environmental, health and toxicology information for your employees who recently ordered this product. Please make sure this information is given to them. If you resell this product, this Bulletin should be given to the Buyer. This Form may be reproduced without permission.

Chevron U.S.A. Inc.

Material Safety Data Sheet

Prepared According to the OSHA Hazard Communication Standard (29 CFR 1910.1200). (Formerly Called MATERIAL INFORMATION BULLETIN)

RECEIVED



CHEVRON AW Hydraulic Oil 68

JAN 1 3 1992

CPS 234228

TYPICAL COMPOSITION

ALLAN ALTON

Highly refined base oils (CAS 64742-65-0, 64742-36-5, 64742-54-7, 64742-01-4)
Additives including inhibitors demulsifiers and anti-

99%

Additives including inhibitors, demulsifiers, and antiwear agent containing zinc dialkyldithiophosphate (CAS 68649-42-3)

14

EXPOSURE STANDARD

-}

No Federal OSHA exposure standard or ACGIH TLV has been established for this material. Based on information reviewed to date, we recommend an exposure standard of 5 mg/m^3 . This is the Federal OSHA exposure standard and the ACGIH (1985-86) TLV for mineral oil mists.

PHYSIOLOGICAL & HEALTH EFFECTS

EMERGENCY & FIRST AID PROCEDURES

Eyes

Expected to cause no more than minor eye irritation.

Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. If irritation persists, see a doctor.

Skin

Expected to cause no more than minor skin irritation following prolonged or frequently repeated contact. See Additional Health Data.

Wash skin thoroughly with soap and water. Launder contaminated clothing.

Inhalation

Not expected to be acutely toxic by inhalation. Breathing mineral oil mist at concentrations in air that exceed the recommended exposure standard can cause respiratory irritation or discomfort. See Additional Health Data.

If respiratory discomfort or irritation occur, move person to fresh air. See a doctor if irritation continues.

Ingestion

by

Not expected to be acutely toxic ingestion.

If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

Chevron Environmental Health Center, Inc., P.O. Box 4054, Richmond, CA 94804-0054 Emergency Phone Number (415) 233-3737

X-IRC021 (07-85)

No. 80

Rev. 5 11/18/85

ENVIRONMENTAL PROTECTION

See Page 3.

SPECIAL PROTECTIVE INFORMATION

Eye Protection: No special eye protection is necessary.

Skin Protection: No special skin protection is necessary.

Respiratory Protection: No special respiratory protection is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standard, the use of an approved respirator is recommended.

Ventilation: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

FIRE PROTECTION

Flash Point: (COC)428°F(220°C)

Autoignition Temp.: NDA Flammability Limits: n/a

Extinguishing Media: CO2, Dry Chemical,

Foam, Water Fog

Special Fire Fighting Procedures: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. See Hazardous Decomposition Products. Read the entire MSDS.

SPECIAL PRECAUTIONS

DO NOT weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently.

CAUTION! Do not use pressure to empty drum or explosion may result.

Environmental Impact: This material is not expected to present any environmental problems other than those associated with oil spills.

Precautions if Material is Released or Spilled: Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, water or groundwater. Clean up spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

Waste Disposal Methods: Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

REACTIVITY DATA

Stability (Thermal, Light, etc.): Stable. Incompatibility (Materials to Avoid): May react with strong oxidizing materials. Hazardous Decomposition Products: Normal combustion forms carbon dioxide and water vapor and may produce oxides of sulfur and phosphorus; incomplete combustion can produce carbon monoxide. Hazardous Polymerization: Will not occur.

PHYSICAL PROPERTIES

Solubility: Soluble in hydrocarbon solvents; insoluble in water. Appearance (Color, Odor, etc.): Pale yellow liquid. Boiling Point: n/a Melting Point: n/a Specific Gravity: 0.88 @ 15.6/15.6°C Vapor Pressure: n/a Vapor Density (Air=1): n/a Percent Volatile (Volume %): n/a Evaporation: n/a Pour Point: -28°C (-18.4°F) Max.

n/a = Not Applicable
NDA = No Data Available

Viscosity: 65 cSt @ 40°C

The above information is based on data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Material Safety Data Sheet

CHEVRON AW Hydraulic Oil 68

CPS 234228

ADDITIONAL HEALTH DATA

Signs and symptoms of respiratory tract irritation may include, but may not be limited to, one or more of the following, depending on concentration and length of exposure: nasal discharge, nosebleed, sore throat, coughing, bronchitis, pulmonary edema and difficulty in breathing.

This product contains zinc dialkyldithiophosphate (ZDDP). ZDDPs have been tested by repeated application to the skin of young rabbits for three weeks. These rabbits developed severe skin damage, weight loss, and adverse testicular effects. Follow-up studies indicated similar testicular effects can be produced by placing rabbits on a restricted diet and causing them to lose weight or by treating rabbits with simple caustic chemicals and causing them to develop both severe skin irritation and weight loss. Rats similarly occurred. These results indicate that the testicular effects even when skin damage and weight loss caused by the toxicity of ZDDPs but were due to the species reaction to stress from severe skin irritation and weight loss. There is no evidence that human exposure to ZDDPs in the workplace will cause testicular effects since occupational exposure does not cause stress from severe skin irritation and weight loss similar to that observed in rabbits. In summary, we now believe there is no risk of male reproductive impairment from working with ZDDP.

Several ZDDPs have also been found to have weak mutagenic activity in cultured mammalian cells. The low level of activity occurred only at ZDDP concentrations which were highly toxic to the test cells. Since mutagenic activity was observed with zinc chloride but not with calcium dialkyldithiophosphate, the weak mutagenic activity of ZDDP may be due to the zinc in the chemical. Zinc is abundant in the environment, is an essential element in our diets, and it is generally accepted that zinc is not a health hazard. Therefore, we do not believe the test results discussed above indicate a genetic hazard to employees working with ZDDPs. Appropriate personal hygiene procedures as outlined in the MSDS, should, of course, be followed since ZDDPs in concentrated form are irritating to the skin.

This product contains base oils which the International Agency for Research on Cancer (IARC) classifies as having no evidence of carcinogenic potential.

HA ERIAL SAFETY DATA SHEET HYDROFLUORIC ACTO. 70%, FECHNICAL - HE 1270-1

SECTION D1 IDENTIFICATION

INFO FURNISHED BY E.I. DU PONT DE NEMOURS & CO. "INC."

ADDRESS DE 19893

4/30 DATE EFFECTIVE

HYDROFLUGRIC ACID, 70%, TECHNICAL - HF .. CHEMICAL NAME/SYNONYMS...

CHEMICAL FAMILY. INDRGANIC ACID EMERGENCY PHONE # 302-774-2421

CAS # 7564-39-3

CAS NAME . . . HY DRUFLUORIC ACID

I.D.NOS./COUES-NIOSH ACCES NO...MH78900 ... HE *AQUEOUS SOLUTION*

WISHESSER LIVE NOTATION ... FH FOR ANYHOROUS! TRANSPORTATION EMERGENCY PHONE ... 800-424-9300

SECTION 02 PHYSICAL DATA

760 MM HG-66.6 DEG C *151.9 DEG F* BUILING POINT

* VOLATILE BY VOLUME 100

-70-2 DEG C 1-94-4 DEG F1

MELTING POINT VAPUR PRESSURE ******* 150 MM HS 2 25 DEG C 177 DEG F1+

APPROX. 3 VAPOR DENSITY/AIR IS 1 ...

% BY WT.-EQUALS 100 SULUBILITY IN WATER.

CLEAR 'FUHES IN MOIST AIR' COLURLESS LIQUID ++ APPEARANCE & COLOR.

1.23 8 20 DEG 5 '68 DEG F* SPECIFIC GRAVITY

APPROX 14 EVAPURATION RATE.

#260 MM HG @ 37.7 DEG C 199.9 DEG F1

‡≠ACRID. IRRITATING DOOR

PH INEGRMATION ... LESS THAN 2

OCTANOL/HATER PARTITION COEFFICIENT ... LOG P EQUALS -0.94

SECTION 03 FIRE AND EXPLOSION HAZARD DATA

FLASH PUINTAGE CONTRACT WILL NOT BURN FIRE AND EXPLOSION HAZAROS...HF *PARTICULARLY IN DILUTE AQUEDUS SOLUTION ATTACK MOST METALS, RELEASING POTENTIALLY EXPLOSIVE HYDROGEN GAS.

EXTINGUISHING MEDIA...WATER, CARBON DIDXIDE . COZ. FOR FIRES IN AREA.
SPECIAL FIRE FIGHTING INSTRUCTIONS...KEEP UPWIND. IF THERE IS ANY POSSIL OF DIRECT CONTACT, WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED OR AIR-SUPPLIED BREATHING APPARATUS. OD NOT GET WATER IN TANK--CAUSES GENERATION OF HEAT AND POSSIBLE SPATTERING.

SECTION 04 REACTIVITY DATA

INCOMPATIBILITY ... REACTION WITH CYANTOES, SULFIDES, METALS MAY RELEASE

PUISONOUS SYANIDE OR HYDROGEN SULFIDE GAS. OR FLAMMABLE HYDROGEN GAS. POLYMERIZATION . . . WILL NOT OCCUR.

SECTION 05 SPILL+ LEAK AND DISPOSAL PROCEDURES

SPILL, LEAK OR RELEASE... SEE BELDW.

WASTE DISPOSAL * * * DISPUSE OF IN ACCURDANCE WITH FEDERAL * STATE AND LOCAL REGULATIONS. IF APPROVED. MAY BE REMOVED TO LANDFILL.

EXPOSURE LIMITS . . . ACCEM 1979 TEVERS B-HOUR TIME WEIGHTED, AVERAGE EQUALS

THE THE POOR FATTH . BUT NO WARRANTY . EXPRESS

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MATERIAL SAFETY DATA SHEET HYDROFLUORIC ACTO. 70%. TECHNICAL - HE

SECTION 06 HEALTH HAZARD DATA

THE TOTAL THE TOTAL TO THE COMMENDS IN THE TOTAL TO THE CONCENTRAL TO THE CONCENTRAL

SECTION OF FIRST AID PROCEDURES AND PHYSICIAN NOTES

FIRST AID ... SPEED IN REMOVING HE FROM SKIN OR EYES IS OF PRIMARY IMPORTANCE FIRST AID MUST BE STARTED IMMEDIATELY, WITHIN SECONDS OF CONTACT OR SUSPECTION TO ALL PERSONS WHO MAY BE EXPOSED TO HE, AND THEIR SUPERVISORS, SHOULDE FAMILIAR WITH THE FIRST AID PROCEDURES.

SKIN CONTACT-IMMEDIATELY SHOWER WITH COPIDUS AMOUNTS OF WATER WITHIN SECONIAFTER CONTACT OR SUSPECTED CONTACT, AND COMPLETELY REMOVE ALL CLOTHING WHITIN THE SHOWER. STAY IN THE SHOWER JUTIL ASSURED THAT ALL TRACES OF HE ARE REMOVED. THIS MAY TAKE UP TO 30 MINUTES OR LONGER. EXAMINATION AND TREATMED BY A PHYSICIAN IS RECOMMENDED AS QUICKLY AS FEASIBLE. IT MAY BE NECESSARY TRANSPORT THE VICTIM TO THE NEAREST HOSPITAL EMERGENCY ROOM. REMEMBER ALSO THAT CONCENTRATED HE CAUSES IMMEDIATE PAIN BUT DILUTE HE SOLUTIONS MAY NOT CAUSE REDNESS, BURNING OR PAIN UNTIL SEVERAL MINUTES OR EVEN HOURS HAVE.

EYE CONTACT-FLUSH EYES IMMEDIATELY WITH LARGE QUANTITIES OF CLEAN WATER WHI HOLDING THE EYELIDS APART. CONTINUE FLUSHING AT 15-MINUTE INTERVALS, ALTERING WITH THE FULLUMING TREATMENT...APPLY ICE COMPRESSES WHILE AWAITING EXAMITION BY AN EYE PHYSICIAN. 'IT MAY BE NECESSARY TO TAKE VICTIM TO THE NEAR HOSPITAL EMERGENCY ROOM'. FUR EYE PAIN, A DROP OF 0.5% PONTACAINE

HYDROCHLORIDE MAY BE INSTILLED IN THE EYE. USE NO DILS OR DINTHENTS.

VAPOR INHALATION-IMMEDIATELY REMOVE THE VICTIM TO AN UNCONTAMINATED ATMOSPHERE. CALL A SHYSICIAN. ADMINISTED DAYSON AS FORM AS TOURS.

PHERE. CALL A PHYSICIAN. ADMINISTER DXYGEN AS SOON AS POSSIBLE. DXYGEN IN TION MAY BE REPEATED AT HALF-HOUR INTERVALS FOR A TOTAL OF 3 OR 4 HOURS OUNTIL NO SHORTNESS OF BREATH IS PRESENT AND THE VICTIM'S NORMAL SKIN COLORRETURNED. KEEP THE VICTIM WARM.

INGESTION-DO NOT INDUCE VOMITING. IMMEDIATELY DRINK A, LARGE QUANTITY OF MI OR WATER WITH ADDED MILK OF MAGNESIA. CALL A PHYSICIAN. THROAT BURNS MAY C SEVERE SWELLING AND REQUIRE A TRACHEDTOMY *OPENING THE WINDPIPE*. THE VICT SHOULD BE ADMITTED TO THE HOSPITAL AND CAREFULLY ATTENDED.

NOTES TO PHYSICIAN-INTRODUCTION...THE CHOICE OF THERAPY FOLLOWING FIRST AT MEASURES IS AT THE DISCRETION OF THE ATTENDING PHYSICIAN. SELECTION OF THE BEST TREATMENT WILL DEPEND ON THE FOLLOWING FACTORS...

CONCENTRATION AND TEMPERATURE OF THE HF.

DEGREE AND EXTENT OF THE BURN.

AREAS OF THE BODY AFFECTED.

FIRST AID MEASURE TAKEN BEFORE PHYSICIAN'S ARRIVAL.

GENERAL CONDITION OF THE VICTIM. #CONTINUED IN SECTION 9

SECTION 08 SPECIAL HANDLING INFORMATION

PERSONAL PROTECTIVE EQUIPMENT... CHEMICAL SPLASH GOGGLES... PVC OR NEOPRENE GAUNTEST GLOVES AND FOOTGEAR.. LONGSLEEVE COVERALLS. HARD-HAT WITH BRIM.

MATERIAL SAFETY DATA SHEET HYDROFLUORIC ASID. 70%. TECHNICAL - HE

SECTION OB SPECIAL HANDLING INFORMATION DSHA-PERMISSIBLE GAS MASK OR CHEMICAL CARTRIDGE. OR SUPPLIED AIR OR SEL CONTAINED BREATHING APPARATUS. SEE 29C=R 1910.134 AND NIOSH PUBLICATI 78-210.

SECTION 09 SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION TRANSPURTATION ...

DOT SHIPPING NAME ... HYDROFLUDRIC ACID SOLUTION. DOT HAZARD CLASS -CURROSIVE MATERIAL. 49 STC CODE 49 300 221 UN #1790. IMCO CLASS 8. SHIPPING CONTAINERS ... RAILROAD TANK CAR . TANK TRUCK . 1 OT PE SAMPLE BOTTLE STURAGE CUNDITIONS. . . KEEP IN WELL VENTILATED AREA AWAY FROM HEAT, SPARKS, FLAME. KEEP CONTAINER TIGHTLY CLOSED. STURAGE FACILITIES SHOULD BE

CONSTRUCTED FOR CONTAINMENT AND DILUTION/NEUTRALIZATION OF SPILLS. THE FOLLOWING METHODS HAVE BEEN EFFECTIVE IN THE TREATMENT OF HE BURNS. SKIN CONTACT-ICED SOLUTIONS-THE BURNED AREA IS IMMERSED IN AN ICED AQUED! 70% ALCOHOL SOLUTION OF PENZALKONIUM CHLORIDE IN A CONCENTRATION OF 0.13 IMMERSION IS NOT PRACTICAL, COMPRESSES OF ONE OF THE ICED SOLUTIONS OR I WATER COMPRESSES CAN BE APPLIED. THE TREATMENT SHOULD BE CONTINUED FOR INTERVALS VARYING FROM 1-4 HOURS DEPENDING ON PAIN AND THE APPEARANCE OF BURN. AVOID FREEZING THE TISSUES. BENZALKINIUM CHLORIDE AND ALCOHOL SOLU SHOULD NOT BE USED AROUND THE EYES SINCE THEY MAY CAUSE IRRITATION AND DA CALCIUM SLUCONATE GEL *2.5%*-TOPICALLY APPLIED GEL MUST BE RUBBED IN CONT ·········UOUSLY: ·UNTIL: PÀIN :HAS: GOMPLETELY::SUBSTOED=--CA-LCIUM: GEUCONATE:--GEL: ·SHOULO:--NE USEO UNTIL AFTER THOROUGH AND COMPLETE WASHING OF THE SKIN WITH WATER. CALCIUM GLUCONATE TOPICAL INJECTIONS-WHEN THERE IS EVIDENCE OF SKIN PENET TION AS IN SECOND OR THIRD DEGREE BURNS. A 5% CALCIUM GLUCONATE SOLUTION STANDARD AMPULE IS 10% FOR INTRAVENOUS USE" IS MIXED WITH A 2% XYLOCAINE TION AND IS INJECTED BY INFILTRATING THE SKIN AND SUBCUTANEOUS TISSUES IN SAME MANYER AS THE INJECTION OF A LOCAL AVESTHETIC SUBCUTANEOUSLY. CARE S BE TAKEN TO AVOID OVER-DOSING WITH CALCIUM, ALL SKIN WHICH HAS BEEN EXPOS SHOULD BE INFILTRATED INCLUDING UP TO 1/4 INCH AROUND THE AREA. THIS MAY PREVENT THE DEVELOPMENT OF SEVERE BURNS. BURNS AROUND THE FINGERNAIL MAY REQUIRE SPLITTING THE NAIL FROM THE DISTAL END IN ORDER TO RELIEVE PAIN A FACILITATE DRAINAGE PRIOR TO SOAKING WITH ONE OF THE ABOVE MENTIONED SOLUTIONS .

TOPICAL APPLICATIONS-AFTER ADMINISTERING FIRST AID. ROUTINE BURN TREATMEN INCLUDING ASO DINTMENT, TOPICAL STEROID CREAM, OR DINTMENT MAY BE APPLIED. SURGICAL EXCISION-IMMEDIATE EXCISION OF SMALL AREAS BURNED WITH CONCENTRA SOLUTIONS OF HE MAY PREVENT A PAINFUL.SLDA HEALING BURN. PRIMARY CLOSURE. EXCISION OR 541N GRAFFING IF INDICATED, MAY PROVIDE MORE RAPTO HEALING AND LESS SCARRING.

**CONTINUED IN SECTION 99-FUDINOTES

SECTION 10 HAZARDOUS INGREDIENTS

MATER TAL "5"

APPROXIMATE &

HYDROGEN FLUDRIDE

71

SECTION 99 FOOTNOTES

REFERENCES AND ADDITIONAL INFORMATION ...

DO HUT GET IN EYES. ON SKIN, ON CLOTHING.

DO NUT BREATHE VAPOR.

WASH THUROUGHLY AFTER HANDLING.

BEFORE USING, READ OU PONT HYDROFLUDRIC ACID DATA SHEET. FOR MURE INFORMATION, MERER TO... DU PONT HYDROFLUORIC ACTO PROPERTIES. 5/81 . 13:20 FAX 2137710528

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MATERIAL SAFETY DATA SHEET HYDROFLUORIC ACID. 70%, TECHNICAL - HE

SECTION 99 FOOTNOTES

STURAGE AND MANDLING BULLETIN., NIOSH/OSHA **POCKET GUIDE TO CHEMICAL HAZARDS**, NIOSH PUBLICATION 78-210., AND NIOSH GUIDE TO RESPIRATORY PROTECTION, PUBLICATION 76-189.

**NUTES TO PHYSICIAN CONTINUED FROM SECTION 9...
EYE CONTACT-APPLY FIRST AID MEASURES AS DESCRIBED AND A SPECIALIST SHOULD CONSULTED IMMEDIATELY.

VAPUR INHALATION-APPLY FIRST AID MEASURES. WHEN IN DOUBT, VICTIM SHOULD B HUSPITALIZED AND OBSERVED FOR SIGNS OF PULMONARY EDEMA OR OTHER RESPIRATO DISTRESS. THE HUSPITALIZATION SHOULD COVER A 48-HOUR PERIOD MINIMUM AND TREATMENT WITH BRONCHIAL DILATORS. SYSTEMIC STEROIDS AND ANTIBIOTICS MAY USED AS REQUIRED.

INGESTION-APPLY FIRST AID MEASURES AS DESCRIBED. GASTRIC LAVAGE WITH LIME WATER OR MILK MAY BE PERFORMED BY A PHYSICIAN ONLY. DO NOT INDUCE VOMITIN

DATA SHEET

HYDROFLUORIC ACID

Technical Anhydrous and 70% Solution

Both anhydrous hydrofluoric acid (AHF, hydrogen fluoride, M.W.-20.006) and the 70% aqueous solution (HF-70%) are clear, colorless, corrosive liquids with a sharp, penetrating odor. Both of these products are hygroscopic and fume when exposed to moist air. They are miscible with water in all proportions and will evolve heat upon dilution.

Du Pont manufactures and ships bulk quantities of AHF and HF-70%. As a safety-oriented service to customers, Du Pont provides trained drivers and its own truck fleet dedicated exclusively to hydrofluoric acid service. Typical deliveries with these tank trucks for both AHF and HF-70% are 40,000 pounds net.

Both grades are also available by rail shipment. Tank cars in AHF service have capacities of 6,000, 11,000 and 28,000 gallons. HF-70% is shipped in 8,000 and 20,000 gallon tank cars.

| PHYSICAL PROPERTIES OF AQUEOUS HYDROFLUORIC ACID-70% | | | | |
|--|-------------------|------------------------|--|--|
| Boiling point (760 | mm Hg), C | 66.6 | | |
| | F - | 151.9 | | |
| Freezing point, C | | -70.2 | | |
| F | | -94.4 | | |
| Vapor pressure, 25 | 5 C (77 F), mm Hg | 150 | | |
| (See Figure 1) | psia | 2.9 | | |
| | kPa | 20.0 | | |
| Density, liquid, 25 C (77 F), | | | | |
| (See Figure 2) | g/ml (Mg/m³) | 1.22 | | |
| | lb/gal | 10.18 | | |
| Viscosity, 25 C (77 | F), cP (mPa ·s) | 0.61 | | |
| Conductivity, 0 C (3 | 32 F), mhos/cm | 7.9 × 10 ⁻¹ | | |
| | S/m | 79 | | |

| PHYSICAL PROPERTIES OF ANHYDROUS HYDROFLUORIC ACID | | | | | | |
|--|--|--|--|--|--|--|
| Boiling point (760 mm Hg), C | 19.5 | | | | | |
| Freezing point, C | 67.1 -83.5 | | | | | |
| Vapor pressure, 25 C (77 F), mm Hg (See Figure 1) nsia | -118.3 912 | | | | | |
| kPa | 17.6 121.6 | | | | | |
| Density, liquid, 0 C (32 F), (See Figure 2) g/ml (Mg/m³) | 1.015 | | | | | |
| lb/gal Viscosity, 0 C (32 F), cP (mPa •s) | 8.47 0.26 | | | | | |
| 10 C (50 F), cP (mPa ·s) Critical temperature, C | 0.23 188.0 | | | | | |
| Critical pressure, atm | 370.4 64.0 | | | | | |
| MPa Critical density, g/ml | 6.48 0.29 | | | | | |
| Critical volume, ml/g •mol Specific heat, liquid, 0 C (32 F), | 69.0 | | | | | |
| cal/g •C (Btu/lb •F) kJ/kg •K | 0.61 2.55 | | | | | |
| Heat of vaporization, at b.p., cal/g Btu/lb | 81 146 | | | | | |
| kJ/kg Refractive index, n _D ²⁵ | 340 1.157 | | | | | |
| Surface tension, at b.p., dyn/cm (mN/m) | 8.6 | | | | | |
| Dielectric constant, 0 C (32 F) | 83.6 | | | | | |
| Conductivity, 0 C (32 F), mhos/cm S/m | <1.6 × 10 ⁻⁸ <1.6 × 10 ⁻⁴ | | | | | |

NOTICE: Hydrofluoric acid liquid and vapor are extremely hazardous and cause severe burns to the skin, eyes and mucous membranes. The effects may not be immediately painful or visible. See PERSONAL SAFETY AND FIRST AID on page 2.

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SPECIFICATIONS AND TYPICAL ANALYSES DU PONT HYDROFLUORIC ACID, TECHNICAL

| | Anhydrous HF | | HF-70% | |
|---|---------------------|----------------------|---------------------|---------------------|
| | Specifi- cations | Typical Analyses* | Specifi- cations | Typical Analyses |
| Hydrofluoric acid, (HF), wt % | 99.9 min | 99.98 | 70.0 min | 71.25 |
| Fluosilicic acid, (H ₂ SiF ₆), wt % | 0.05 max | 0.009 | 0.02 max | 0.005 |
| Nonvolatile acidity as H ₂ SO ₄ , wt % | 0.005 max | 0.001 | _ | _ |
| Sulfuric acid, (H ₂ SO ₄), wt % | | _ | 0.02 max | 0.009 |
| Sulfur dioxide, (SO₂), wt % | 0.01 max | 0.003 | _ | _ |
| Water, (H2O), wt % | 0.05 max | 0.002 | | |
| Color | _ | water white | _ | water white |

^{*}These columns show typical properties based on historical production performance. Du Pont does not make any express or implied warranty that these products will continue to have these typical properties.

CHEMICAL PROPERTIES

Hydrofluoric acid reacts with metals above hydrogen in the Electromotive Series of the Metals to form fluoride salts. It also reacts with metal carbonates, oxides and hydroxides.

Silicon tetrafluoride and fluosilicic acid are formed when hydrofluoric acid reacts with silica or silicic acid. Hydrofluoric acid attacks glassware. Aqueous solutions of HF are best handled in the laboratory using polyethylene or polypropylene containers. Use Teflon® or low carbon steel containers for AHF.

Anhydrous hydrogen fluoride reacts with olefins to give organic fluorides and with halogenated organic compounds to give fluorinated organic compounds. AHF forms stable complexes with metal fluorides. AHF also acts as a catalyst in reactions involving the formation of carbon-carbon bonds.

Hydrofluoric acid evolves considerable heat upon dilution with water, and cooling may be necessary for preparation of solutions.

Hydrogen fluoride forms a constant boiling mixture with water at 38.2 weight percent and 112.2 C (234 F).

USES

Anhydrous hydrofluoric acid (AHF)

- Manufacture of fluorinated hydrocarbons used as refrigerants, propellants, solvents and monomers
- Production of inorganic fluorides such as aluminum fluoride, synthetic cryolite, sodium fluoride and fluoborates, fluosilicates and fluosulfonic acid
- Catalyst for alkylation, disproportionation, isomerization, transalkylation, condensation, polymerization and dehydration reactions
- Manufacture of fluorine and perfluoro acids and their derivatives

- Refining of uranium, tantalum, beryllium and other specialty metals
- Preparation of aqueous hydrofluoric acid
- Fluorinating agent and reaction medium in organic reactions

Aqueous hydrofluoric acid-70% (HF-70%)

- Pickling agent for stainless and other heat resistant steels
- Cleaning sand castings and removing silaceous scales from cast iron and steel products
- Component with other acids and oxidizers in cleaning solutions for removal of oxide coatings from non-ferrous metals and alloys
- Chemical milling of non-ferrous metal parts constructed of aluminum, titanium, tantalum and beryllium
- Treating ores and refining specialty metals
- Manufacture of inorganic fluorides
- Etching, frosting and polishing glass surfaces

PERSONAL SAFETY AND FIRST AID

The hazardous nature of hydrofluoric acid requires that supervisors and operators be carefully selected, trained and drilled. In any operations involving HF, all operating and maintenance personnel should become thoroughly familiar with the hazards and the safeguards necessary to minimize the risk of injury. Essential information for the safe handling and use of hydrofluoric acid is covered in Chemical Safety Data Sheet SD-25 published by MCA.ª Recommended respiratory protection guidelines are given in Chapter I, Section 4 of the NIOSH criteria document on "Occupational Exposure to Hydrogen Fluoride".

Health Hazards

Liquid anhydrous hydrofluoric acid (AHF) causes immediate and serious burns to any part of the body on contact. Hydrofluoric acid 70% (HF-70%) and dilute aqueous solutions of HF cause severe burns of the skin, eyes and mucous membranes. The burns from dilute HF solutions and low concentrations of vapor may not be immediately painful or visible. Several hours may pass before the solution penetrates the skin sufficiently to cause redness or a burning sensation.

Wearing clothing (including leather shoes and gloves) which may have absorbed small amounts of hydrofluoric acid can result in painful delayed effects.

Hydrogen fluoride vapor causes burns. The effects may not become apparent until a few hours after exposure. Inhaling the vapor in high concentrations causes lung damage (pulmonary edema).

Manufacturing Chemists Association, 1825 Connecticut Avenue, Washington DC 20029, (202)-483-6126.

b U.S. Dept. of Health, Education, and Welfare, National Institute for Occupational Safety and Health, HEW Publication No. (NIOSH) 76-143, March, 1976.